

PERSONAL INFORMATION

Family name, First name: Fossum, Jon Otto
 Date of birth: 26.12.1953; Sex: Male; Nationality: Norwegian
 URL for personal web site: softcomlab.com



Languages: Norwegian, English, French, Portuguese, some German...

EDUCATION

1983 **PhD: Disputation date: October 1983.** Physics, NTH (Norwegian University of Science and Technology (NTNU))/Norway
 1978 **MSc:** Physics, NTH (Norwegian University of Science and Technology (NTNU))/Norway

CURRENT AND PREVIOUS POSITIONS

Since 2003 **Full Professor**, Natural Science Fac./Physics Dept., Norwegian University of Science and Technology (NTNU)/Norway
 2000-2003 **Associate Professor**, Natural Science Fac./Physics Dept., Norwegian University of Science and Technology (NTNU)/Norway
 1997-1999 **Research Scientist**, Natural Science Fac./Physics Dept., Norwegian University of Science and Technology (NTNU)/Norway
 1989-1990 **Research Scientist**, Physics Dept., Risø National Laboratory/Denmark
 1987-1989 **Research Scientist/Postdoc**, Physics Dept., Massachusetts Institute of Technology (MIT)/USA
 1985-1987 **Postdoc**, Chemistry Dept., Massachusetts Institute of Technology (MIT)/USA
 1985-1987 **Postdoc**, Physics Dept., University of Sherbrooke/Quebec/Canada
 1980-1985 **Research fellow**, Physics Dept., NTH (Norwegian University of Science and Technology (NTNU))/Norway
 1978-1979 **Researcher**, Materials Technology/SINTEF/Trondheim/Norway

FELLOWSHIPS AND AWARDS

2016 **Joliot Visiting Professor** (1 month) at IPGG/ESPCI-ParisTech/France
 2012-2015 **CNPq Science without Borders fellowship** (3 months/year) for working at Mechanical Eng. Dept., Pontifica Universidade Catolica do Rio de Janeiro/Brazil
 2012 Certificate of Appreciation from ACS for reviewing work.
 2011-2012 **Invited Fellow to Centre for Advanced Studies** (CAS) (1 year) at the Norwegian Academy for Science and Letters, Oslo/Norway
 2008 **CNPq fellowship** (3 months) during sabbatical stay at Physics Dept., Universidade Federal de Pernambuco (UFPE)/Brazil
 2004 **Joliot Visiting Professor** (1 month) at ESPCI-ParisTech/France
 1985-87 **NTNF Fellowship** for additional support during postdoc (2 years) stay at Massachusetts Institute of Technology (MIT)/USA
 1983 **Norway-Austria Cultural Exchange Fellowship** (1 month) for stay at Physics, Dept., Univ.Vienna, Austria

MOBILITY (research stays abroad lasting more than three months)

2016-2017 **Visiting scientist** on sabbatical leave from NTNU: Institut Pierre Gilles de Gennes pour la microfluidique (IPGG) and ESPCI-ParisTech/France
 2012-2015 **Visiting scientist:** Pontifica Universidade Catolica do Rio de Janeiro (PUC-Rio)/Brazil (3 months/year)
 2008 **Visiting scientist** on sabbatical leave from NTNU: Universidade Federal de Pernambuco (UFPE)/Brazil (6 months)
 2004 **Visiting scientist** on sabbatical leave from NTNU: ESPCI-ParisTech/ France (6 months)

1989-1990 **Postdoc:** Risø National Laboratory/Denmark

1985-1989 **Postdoc:** Massachusetts Institute of Technology (MIT)/USA, including Brookhaven National Lab/USA

1984-1985 **Postdoc:** University of Sherbrooke/Quebec/Canada

SUPERVISION OF GRADUATE STUDENTS AND RESEARCH FELLOWS

Since 1999 Number of **Postdocs: 12 / PhD: 17 / Master Students: 50**, Natural Science Fac./Physics Dept., NTNU/Norway

2012-2015 Number of **Postdocs: 1**, Mechanical Eng. Dept., Pontifica Universidade Catolica do Rio de Janeiro/Brazil

2012-2018 Number of **PhD: 1/Master Students 1**, IMRE/Univ. Havana/Cuba

2011-2015 Number of **PhD: 2/Master Students 3**, Physics Inst., Univ. Brasilia (UnB)/Brazil

2010-2015 Number of **PhD: 1**, Physics Dept., Univ. Oslo/Norway

Detailed:

Supervisor for 12 PhD students graduated during past 15 years:

Main supervisor for the following NTNU Physics graduated PhD students:

- 1) Kanak Parmar, PhD Thesis defended 2006, Present position: Professor at University of Petroleum and Energy studies, Dehradun, Uttarakhand, India
- 2) Davi de Miranda Fonseca, PhD Thesis defended 2008, Present position: General Manager of PROMEC (Proteomics and Metabolomics Core Facility), Department of Cancer Research and Molecular Medicine, NTNU, Trondheim, Norway
- 3) Zbigniew Rozynek, PhD Thesis defended 2011, Present position at Adam Mickiewicz University, Poznań, Poland
- 4) Henrik Hemmen, PhD Thesis defended 2012, Present position: CTO at Condalign AS, SME, Oslo, Norway
- 5) Elisabeth Lindbo Hansen, PhD Thesis defended 2013, Present position: Senior advisor and researcher at the Norwegian Radiation Protection Authority, Oslo, Norway
- 6) Leander Michels, PhD Thesis defended 2015, Present position: Researcher at ELKEM, Kristiansand, Norway
- 7) Alexander Mikkelsen, PhD Thesis defended May 2016, Present position: Researcher at Norwegian Defence Research Establishment (FFI)
- 8) Everton Carvalho dos Santos, PhD Thesis defended October 2017, Present position: Researcher at Universidade Estadual Paulista (UNESP), Bauru, Brazil

Co-supervisor for 3 PhD students graduated outside NTNU, and 1 at NTNU:

- 9) Rene Castberg: PhD Thesis defended June 2014 at University of Oslo (UiO), co-supervised with Prof. K.J. Måløy, UiO. Present position: Senior Researcher at DNV GL, Oslo, Norway.
- 10) Giovanni Grassi (exchanged to NTNU from UnB, on Brazilian Science without Borders grant, 12 months 2014): PhD Thesis defended November 2015 at University of Brasilia (UnB), Brazil, co-supervised with Prof. Geraldo J. da Silva, UnB. Present position: Professor employed at Instituto de Fisica, Universidade de Brasilia, Fundação Universidade Aberta do Distrito Federal – FUNAB, Brazil.
- 11) Mario Altoe, (exchanged to NTNU from UnB, on Brazilian Science without Borders grant, 12 months 2014-15): PhD Thesis defended November 2015 at University of Brasilia (UnB), Brazil, co-supervised with Prof. Geraldo J. da Silva, UnB. Present position: Professor employed Universidade Federal do Espirito Santo, Alegre, ES Brazil.
- 12) Kristoffer W.B. Hunvik Thesis defended September 2020, co-supervised with Prof. Steinar Raaen, NTNU. Present position: Researcher at Norwegian Defence Research Establishment (FFI)

Main supervisor for 50 NTNU MSc students of physics graduated since 1999:

2020 (2): Paul Røren Monceyron, Kristian Huseby Olsen.

2019 (3): Konstanse Selejlid, Vegard Josvanger, Asbjørn Torsvig Kruger.

2018 (1): Marie Hansteen (thesis work with DSM Materials Science Center, The Netherlands).
 2015 (2): Tommy F. Kristiansen, Torstein Eidsnes Penne (thesis work with SINTEF Energy).
 2014 (3): Humaira Idris, Arne Halvor Thingstad Pedersen, Svein Henrik Skjellanger.
 2013 (3): Ane Kamilla Hovdan, Emilie Lund Johnsrud (on exchange at PUC Rio de Janeiro Brazil for 7 months 2013), Janine Ravnanger Seth (on exchange at PUC Rio de Janeiro Brazil for 7 months 2013).
 2012 (5): Øystein Anmarksrud, Kristian Hox, Knut Kjerstad, Alexander Mikkelsen (on exchange at PUC Rio de Janeiro Brazil for 6 months 2011), Karin Rustenberg.
 2011 (3): Beate Krefting Capellen, Moshen Dahesh, Erlend G. Rolseth,
 2010 (3): Eirik Voje Blindheim, Kjetil Hersvig, Mats Sigstad,
 2008 (6): Bård Martin Kjelling, Elisabeth Lindbo Hansen, Knut Magnus (incl. 1 month on exchange at UFPE, Recife, Brazil), Christer Honore Erslund, Henrik Hemmen (incl. 6 months on exchange at UFPE, Recife, Brazil), Nils Ivar Ringdal,
 2007 (9): Ariel Fischer, Hege S. Bjørnsen, Jorunn Hølto, Christian A. Nielsen, Helene Rødal, Børge Schjelderupsen, Svein Å. Slungård, Lars Ramstad Alme (incl. 1 month on exchange at UFPE, Recife, Brazil), Yunus Naqvi.
 2005 (1): Steinar Thorshaug,
 2003 (1): Herbert Gustav Yankson.
 2002 (3): Vegard Bergaplass, Robin Kumar Sanga, Hans Bakken.
 2001 (2): Tommy Nakken Aalerud, Magnus W. Haakestad.
 2000 (1): Erlend Gudding.
 1999 (2): Simen Berg Lutnæs, Frøydis Romunseth

Main supervisor presently for 3 PhD students working at NTNU:

- 2018-21: Paulo Henrique Michels Brito NTNU Physics
- 2018-21: Osvaldo Trigueiro Neto NTNU Physics
- 2019-22: Konstanse Kvaem Selejlid NTNU Physics

Cosupervisor at present for 2 PhD students working at NTNU:

- 2017-21: Etien Martinez NTNU Physics, main supervisor Prof. Paul Dommersnes NTNU

Cosupervisor at present for 1 PhD student working at other institutions than NTNU:

- Since 2014: Leslie Valdes, University of Havana (UH) Cuba, main supervisor Prof. Aramis Rivera UH

Recent Opponent at PhD defenses and other panels/jurys:

- In jury for PhD defence of Georgios Birmopilis, Chalmers University of Technology, Sweden, Sept. 2020
- Opponent for PhD defence of Axel Thuresson, Lund Univ., Sweden, June 2017
- Opponent for PhD defence of P. Daniel Svensson, Lund Univ., Sweden, March 2015
- Opponent for PhD defense of Haijiang Zhang, Chalmers University of Technology, Sweden, June 2013
- In jury for PhD defence of Baudouin Saintyves, CEA-Saclay & ESPCI-ParisTech February 2013
- Member of other evaluation panles in several countries: France, Sweden, Austria, Portugal

Main supervisor for postdocs employed in the Soft and Complex Matter Lab at NTNU since 2000:

- 1) Barbara Pacakova, Post.doc Physics Department NTNU 2017-
- 2) Ville Liljestrøm, Post.doc Physics Department NTNU 2017-29.
- 3) Ana Catarina Trindade, Post.doc Physics Department NTNU 2017-20. Present position at Universidade NOVA de Lisboa Portugal.
- 4) Zbigniew Rozynek, Post.doc Physics Department NTNU 2011-13. Present position at Adam Mickiewicz University, Poznań, Poland.
- 5) Davi de Miranda Fonseca, Postdoctoral Fellow Physics Department NTNU 2010-2011. Present position at Department of Cancer Research and Molecular Medicine, NTNU.

- 6) Bao-xiang Wang, Post.doc NTNU Physics Department 2007-2010. Present position at College of Materials Science and Engineering, Qingdao University of Science and Technology, Qingdao 266042, China.
- 7) Zhou Min. Post.doc NTNU Physics Department 2007-2008. Present position: Instructor, The university of Texas, MD Anderson Cancer Center, Houston, TX, USA
- 8) Ahmed Gmira, Post.doc NTNU Physics Department 2003-2007. Present position: Researcher at Schlumberger Research Center in Dhahran, Saudi Arabia
- 9) Yves Meheust, Post.doc NTNU Physics Department 2002-2006. Present position: Assistant Professor, Université Rennes 1, France.
- 10) Renaud Toussaint, Post.doc NTNU Physics Department 2002-2003. Present position: Chargé de Recherches, CNRS, Institute of Globe Physics, University Louis Pasteur, Strasbourg, France.
- 11) Geraldo Jose da Silva, Post.doc NTNU Physics Department 2000-2002. Present position: Professor, University of Brasilia, Brazil

Co-supervisor of 1 postdoc employed at (PUC-Rio) 2012-2015:

- 12) Azarmidokht G. Shirazi. Post.doc Pontifica Universidade Catolica do Rio de Janeiro (PUC-Rio) Mech. Eng. Dept. 2012-2015. Present position: Research Fellow at University of Birmingham UK.

TEACHING ACTIVITIES

Since 1999: Professor – Physics, Natural Science Fac./Physics Dept., NTNU/Norway

Recent development of courses and educational activities:

- Since 2000: Development and execution of MSc specialization course/PhD course FY8920: “*Light, Neutron and X-Ray Scattering*”. 7.5 ECTS.
- Since 2010: Development of PhD Course FY8203 Soft Matter Physics, which 2014 and 2016 was taught jointly with 6 Universities in Brasil (PUC-Rio, UnB, USP, UFABC and UFSCar and UFPE), via 2 grants from the Norwegian Centre for International Cooperation in Education (SIU) and 1 ISP grant from the Research Council of Norway Petromaks2 program. 7.5 ECTS.
- Since 2013: Development and execution of Experts in Teamwork (EiT) MSc course TFY4852: “*Soft Technologies*”. 7.5 ECTS
- Since 2017: Development and execution MSc/PhD course TFY4852/FY8910: “*Non-linear Dynamics*”. 7.5 ECTS
- 2019: Organizer of the *Geilo PhD School 2017: Evolving Soft Matter: Shape, Dynamics and Functionality*, March 11-21, 2019 at Bardøla Høyfjellshotel, Geilo, Norway. 4.5 ECTS
- 2017: Organizer of the *Geilo PhD School 2017: Physics Inspired by Living Matter*, March 20-30, 2017 at Bardøla Høyfjellshotel, Geilo, Norway. 4.5 ECTS.
- 2015 Organizer of the *Geilo PhD School 2015: Cooperative particles: Patchy colloids, active matter and nanofluids*, March 16-26, 2015 at Bardøla Høyfjellshotel, Geilo, Norway. 4.5 ECTS. Several international researchers, professors and students participated in the Geilo School, among them about 20 from Brazil.

ORGANISATION OF SCIENTIFIC MEETINGS

1. Main organizer of 6th *International Workshop on Soft & Complex Matter*, Norwegian Academy of Science and Letters, Oslo, Norway, October 6-7, 2019
2. In Organization Committee of “*The Geilo School 2019: Evolving Soft Matter: Shape, Dynamics and Functionality*”, March 11-21, 2019 at Bardøla Høyfjellshotel, Geilo, Norway
3. Main organizer of 5th *International Workshop on Soft & Complex Matter*, Norwegian Academy of Science and Letters, Oslo, Norway, October 21-22, 2018
4. Main organizer of *Soft Matter Days*, NTNU, Trondheim, Norway, April 24-27, 2018
5. Main organizer of 4th *International Workshop on Soft & Complex Matter*, Norwegian Academy of Science and Letters, Oslo, Norway, October 29-30, 2017
6. Convener of session NT-09 *Selforganization from clay particles: From nano to macro*, in the 16th *International Clay Conference Clays, From the Oceans to Space* - Granada 17-21 July 2017

7. Convener of session NT-14 *CO₂ or methane capture by clays*, in the *16th International Clay Conference Clays, From the Oceans to Space* - Granada 17-21 July 2017
8. Co-convener of session NT-11 *Material's challenges for the clay scientist*, in the *16th International Clay Conference Clays, From the Oceans to Space* - Granada 17-21 July 2017
9. In Organization Committee of "*The Geilo School 2017: Physics Inspired by Living Matter*", March 20-30, 2017 at Bardøla Høyfjellshotel, Geilo, Norway
10. Chair of Session on Nanotechnology an IOR/EOR in the value chain, in the *4th November Conference RD&I Collaboration between Norway and Brazil – BN21*, organized by Innovation Norway, at CBPF – Centro Brasileiro de Pesquisas Físicas, Rio de Janeiro October 31 – November 1, 2016
11. Main organizer of *3rd International Workshop on Soft & Complex Matter*, Norwegian Academy of Science and Letters, Oslo, Norway, October 6-7, 2016
12. Chairperson at ECIS 2016, the *30th Conference of the European Colloid and Interface Society*, La Sapienza, Rome, Italy, September 4-9, 2016
13. Chairperson at *15th International Conference on Electrorheological Fluids and Magnetorheological Suspensions (ERM2016)*, Incheon, S-Korea July 4-8 2016
14. Main organizer of *4th International Workshop on Complex Physical Phenomena in Materials*, Hotel Armacao, Porto de Galinhas PE, Brazil, February 22-25, 2016 (About 60 participants)
15. Main organizer of *Norwegian-Brazilian Workshop on Soft and Complex Matter: From Basic Materials Phenomena to Technology*, Pontifícia Universidade Católica do Rio de Janeiro, Brazil, November 25, 2015 (Co-organized with Prof. Marcio Carvalho, PUC Rio de Janeiro Brazil), independent associated event to the *3rd November Conference RD&I Collaboration between Norway and Brazil - BN21*, organized by Innovation Norway.
16. Organizer of *2nd International Workshop on Soft & Complex Matter*, Norwegian Academy of Science and Letters, Oslo, Norway, October 15-16, 2015
17. In scientific/organizing committee of *International Conference: Materials Science in the Age of Sustainability*, Havana, Cuba, June 29 - July 1, 2015
18. Main organizer of *MarchCOMeeting'15-JunEdition: International workshop on Complex matter physics: Materials, dynamics and patterns*, Havana, Cuba, June, 24-26 2015 (Co-organized with Prof. Ernesto Altshuler, Univ. Havana, Cuba)
19. In organizing committee of *Nordic Physics Days*, and convener of *Session on Soft and Complex Matter* at NTNU, Trondheim Norway, June 9-12, 2015
20. In Organization Committee of *The Geilo School 2015: Cooperative particles: Patchy colloids, active matter and nanofluids*" (<http://www.ife.no/en/ife/departments/physics/the-geilo-school-2015>), March 16-26, 2015 at Bardøla Høyfjellshotel, Geilo, Norway
21. Main organizer of *Nordforsk Nordic Workshop on Soft Matter Physics*, at the Norwegian Academy of Science and Letters, Oslo, Norway, September 29-30, 2014
22. Main organizer of *3rd International Workshop on Complex Physical Phenomena in Materials*, Pontifícia Universidade Católica do Rio de Janeiro, PUC-Rio, Brazil, February 17-22, 2014 (About 60 participants) (Co-organized with Prof. Marcio Carvalho, PUC Rio de Janeiro Brazil)
23. Main organizer of *International Mini-Workshop on Multi-Component Soft and Complex Fluids*, at International Center for Condensed Matter Physics (ICOMP), University of Brasilia (UnB), Brasilia-DF, Brazil, July 15-16, 2013 (Co-organized with Prof. Geraldo Jose da Silva, UnB, Brasilia, Brazil)
24. Main organizer of *International Mini-Workshop on Complex Drops and Emulsions* at Department of Mechanical Engineering at Pontifícia Universidade Católica do Rio de Janeiro, Brazil, July 12, 2013 (Co-organized with Prof. Marcio Carvalho, PUC-Rio, Brazil)
25. Convener of Symposium: *Self-organization from Clay Particles: From Nano to Macro* as part of the 15th International Clay Conference, Rio de Janeiro, Brazil, July 7-11, 2013.
26. In scientific committee of *15th International Clay Conference*, Rio de Janeiro, Brazil, July 7-11, 2013.
27. Main organizer of *Nordforsk International Workshop on Soft Matter Physics and Biomembranes*, Reykjavik, Iceland, May 21-24, 2013. (Co-organized with Prof. Aldo Jesorka, Chalmers Univ. Gothenborg, Sweden)

28. Main organizer of *Mini-Workshop on Complex Flows and Turbulence*, Departamento de Fisica, UFPE Recife, PE, Brazil, December 7, 2012 (Co-organized with Prof. Giovanni Vasconcelos, UFPE Recife Brazil)
29. Main organizer of *International Workshop on Soft Matter Physics and Complex Flows*, Svolvær. Lofoten, Norway, May 22 – 25 2012 (About 60 participants from 10 different countries) (Co-organized with Prof. E. Bouchaud. ESPCI-Paris, France)
30. In scientific committee of *International Conference: New materials in the Age of Convergence*, Havana, Cuba, March 12-16, 2012
31. Main organizer of *MarchCOMeeting'12: International workshop on Complex matter physics: Materials, dynamics and patterns*, Havana, Cuba, March 5-8, 2012 (About 80 participants from 10 different countries) (Coorganized with Prof. Ernesto Altshuler, Univ. Havana, Cuba)
32. Main organizer of *International Mini-Workshop on Complex Flows*, International Center for Condensed matter Physics (ICCMP), Universidade de Brasilia (UnB), Brasilia, Brazil, February 6-7, 2012 (co-organized with Prof. Geraldo Jose da Silva, ICCMP and UnB, Brasilia, Brazil)
33. Main organizer of *2nd International Workshop on Complex Physical Phenomena in Materials*, Hotel Armacao, Porto de Galinhas PE, Brazil, January 31- February 3 2012 (About 60 participants from 8 different countries) (Co-organized with Prof. Giovanni Vasconcelos, UFPE Recife Brazil)
34. In scientific committee of *International Workshop on Complex Phenomena in Superconductors and Magnetic Systems*, Øystese, Norway Aug.29–Sept. 2, 2011
35. In organizing committee of *1st Nordic Workshop on Soft Matter Physics*, (Nordforsk network), Århus, Denmark, June 28th – July 1st, 2011
36. Main organizer of *1st International Workshop on Complex Physical Phenomena in Materials*, GoldenTulip Recife Palace Hotel, Boa Viagem, Recife PE, Brazil, December 14-17, 2010 (About 40 participants from 6 different countries) (Coorganized with Prof. Mario Engelsberg, UFPE Recife Brazil)
37. Main organizer of *International Workshop on CO2 and Fluids in Nanoscience*, International Center for Condensed matter Physics (ICCMP), Universidade de Brasilia (UnB), Brasilia, Brazil, December 7-10 2010 (About 40 participants from 8 different countries) (Co-organized with Prof. Geraldo Jose da Silva, UnB, Brasilia, Brazil)
38. *Mini-Workshop on Complex Matter Physics*, NTNU in Trondheim, Norway, September 20&21 2010 (Co-organized with E. Bouchaud CEA-SACLAY Paris)
39. In organizing committee of *Bi-annual meeting of the Norwegian Physical Society*, Røros, Norway, August 12-14, 2009
40. Convener of *Session NM8: Self-assembly from Clay Particles: From Nano to Macro at 14th International Clay Conference*, Castellaneta M., Italy, June 14-20, 2009
41. In organizing committee of *the 27th IUGG (International Union of Geodesy and Geophysics) International Conference on Mathematical Geophysics*, June 15-20, 2008 in Longyearbyen on Spitsbergen
42. Main organizer of *5th Nordic Workshop on Scattering from Soft Matter* at NTNU in Trondheim, Norway, February 6&7 2008 (about 50 participants from about 10 different countries)
43. In organizing committee of *The Complex Conference 2007* (Satellite meeting of the NANOMAT conference 2007), June 8, 2007 in Bergen, Norway
44. Main organizer of *Bi-Annual meeting of the Condensed Matter Physics and Atomic Physics Division of the Norwegian Physical Society*, Wadahl, Norway, September 13-15, 2006 (about 70 participants from about 10 different countries)
45. Main organizer of *Bi-Annual meeting of the Condensed Matter Physics and Atomic Physics Division of the Norwegian Physical Society*, Wadahl, Norway, September 16-18, 2004 (about 70 participants from about 10 different countries)

INSTITUTIONAL RESPONSIBILITIES

2000-2017- Member of Committees at Natural Science Faculty/Phys. Dept., NTNU/Norway

PROJECT MANAGEMENT EXPERIENCE

Since 2004 Manager of about 20 projects awarded from the Research Council of Norway (total funding about 7 MEUR). Manager of 2 projects awarded from Norwegian Agency for International

Cooperation and Quality Enhancement in Higher Education (total funding approx. 0,3 MEUR),
1 project awarded from Nordforsk (total funding approx 0.7 MEUR).

This includes 5 recent projects:

- 2021-2025 *"Clay nanolayers for encapsulation of drops or nanoparticles"*, Research Council of Norway - Researcher Project for Scientific Renewal. External academic partners at Univ. Oslo Norway, Univ. Bauyreuth Germany, ESPCI-ParisTech France, Universidade de Sao Paulo - USP Brazil, Chalmers Univ. Techn., Gotheburg Sweden
- 2021-2025 *"Pickering emulsions for food applications"*, Horizon2020 MSCA-ITN-ETN, coordinated from DTU Denmark, J.O. Fossum is one of the WP leaders. 22 beneficiaries/partners worldwide.
- 2018-2023 *"Nanofluids for IOR and Tracer Technology"*, Research Council of Norway, Petromaks2; External academic partners at NORCE-Stavanger, Norway, IFE - Kjeller Norway, ESPCI-ParisTech/Pierre Gilles de Gennes Institute for Microfluidics - IPPG Paris France, Univ. Rennes1 France, Pontifica Universidade Catolica do Rio de Janeiro - PUC-Rio Brazil, Universidade de Sao Paulo - USP Brazil
- 2016-2021 *"Graphene-NanoClay Systems"*, Research Council of Norway, NANO2021; External academic partners at University of Manchester UK, and at Chalmers Univ. Techn., Gotheburg Sweden.
- 2017-2020 *"Cellcolor: Fabricating cellulose nanocomposites for structural coloration"*, M-Era.Net; External academic partners at Institute for Energy Technology - Kjeller, Norway, Universidade NOVA de Lisboa and IST - Lisboa, Portugal; External private partners at Giamag Technologies, Borregaard AS, Snøhetta AS.

COMMISSIONS OF TRUST

- 2021 Appointed Member COST OC-2020-1 Review Panel – *"Advancing knowledge on physics, materials and chemical processes."*
- 2020 In jury for PhD defense of Georgios Birmopilis, Chalmers Univ. of Techn., Sweden
- 2020 Appointed Member COST OC-2019-1 Review Panel - *"Advancing knowledge on physics, (nano) materials and (bio) chemical processes."*
- 2019 Appointed Member COST OC-2018-2 Review Panel, *"Advancing knowledge on physics, materials and chemical processes."*
- 2017 Opponent for PhD defence of Axel Thuresson, Lund Univ., Sweden
- Since 2015 Member of the Editorial Board of Scientific Reports by Nature Publishing Group
- 2015 Opponent for PhD defence of P. Daniel Svensson, Lund Univ., Sweden
- 2014-2018 Member of Management Committee for COST action MP1305: Flowing matter
- 2013 Appointed Member of External Expert Panel for EU COST Domain: Materials, Physics and Nanosciences (MPNS)
- 2013 Opponent for PhD defense of Haijiang Zhang, Chalmers Univ. of Techn., Sweden
- 2013 In jury for PhD defense of Baudouin Saintyves, CEA-Saclay & ESPCI-ParisTech
- Since 2012 Editor in Cuban Journal of Physics - Revista Cubana de Fisica
- Since 2012 In International Scientific Advisory Board for International Center for Condensed Matter Physics (ICCMP), Universidade de Brasilia (UnB), Brasilia, Brazil
- 2010-2014 Project manager of Nordforsk funded Nordic Researcher Network in Soft Matter Physics for ~100 scientists in ~10 groups (Denmark, Finland, Norway, Sweden)
- 2010-2014 Inter. Scientific Advisory Board Centre of Physics, Minho Univ., Braga, Portugal
- 2009-2013 Member of the Board of the Norwegian Physical Society
- 2009-2013 Chair of the Division for Condensed Matter Physics with Atomic Physics of the Norwegian Physical Society; Member of the Board of the same Division 2013 -
- 2008 1 of 6 Members of the Physics evaluation panel of The Foundation for Science and Technology in Portugal for evaluation of all physics groups/activities in Portugal
- 2007-2009 1 of 6 Members of Physics panel of The Foundation for Science and Technology in Portugal for deciding Physics grants in Portugal.
- 2006-2010 Member of Management Committee for COST P21 action The Physics of droplets
- Since 2000 Regular peer-reviewing requests/assignments from APS Journals, ACS Journals, MRS

Proceedings, Science, Nature Publishing Group, and others
Since 2000 Project manager for about 20 projects granted by the Research Council of Norway

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

Since 1885 Presently, and during various periods, member of American Physical Society (APS), Materials Research Society (MRS), Norwegian Physical Society

MAJOR COLLABORATIONS (Actively ongoing and/or with recent joint publications)

Paul Dommersnes, Soft Matter Physics, Physics/NTNU/Norway
Steinar Raaen, Condensed Matter Physics, Physics/NTNU/Norway
Kenneth D. Knudsen, Soft Matter Physics and Neutron Scattering, Physics/IFE/NTNU/Norway
Geir Helgesen, Soft Matter Physics, Physics/IFE/Univ. Oslo/Norway
Arne Skjeltorp, Magnetism and Complex Fluids, Physics/IFE/Univ. Oslo/Giamag Tech./Norway
Irep Gozen, Biochemistry/University of Oslo/Norway
Aldo Jesorka, Microfluidics, Chemical Engineering/Chalmers Univ. Tech/Sweden
Heloisa Bordallo, Neutron Scattering, Physics/Univ. Copenhagen/Denmark
Matti Knaapila, Physics/Technical University of Denmark – DTU/Lyngby/Denmark
Josef Breu, Inorganic Chemistry/Univ. Bayreuth/Germany
Leide Cavalcanti, ISIS Neutron and Muon Source, UK
Konstantin Novoselov, Graphene and layered materials, Physics/Univ. Manchester/UK
Patrick Tabeling, Microfluidics, ESPCI-ParisTech/IPGG/France
Eric Clement, ESPCI-ParisTech/France
Yves Meheust, Geophysics, Geosciences/Univ. Rennes 1/France
Tomas Plivelic, Synchrotron X-ray Scattering, MaxIVLab/Lund Univ./Sweden
Daniel Bonn, Rheology of Soft Matter, Physics/Univ. Amsterdam/Netherlands
Maria Helena Godinho, Photonic Materials/Materials Science/NOVA Univ. Lisboa/Portugal
Ernesto Altshuler/Aramis Rivera, Complex Systems/Materials Science, Physics/Univ. Havana/Cuba
Marcio Carvalho, Fluid Dynamics and Porous Flow, Mech. Eng./PUC-Rio de Janeiro/Brazil
Koiti Araki, Chemistry/Universidade de Sao Paulo – USP/Brazil
Geraldo Jose da Silva, Synchrotron X-ray Scattering, Physics/Univ. Brasilia/Brazil
Roosevelt D. Droppa, UFABC/Sao Paulo/Brazil
Caetano Miranda, Physics/Universidade de Sao Paulo/Brazil

INTERNATIONAL PROJECTS:

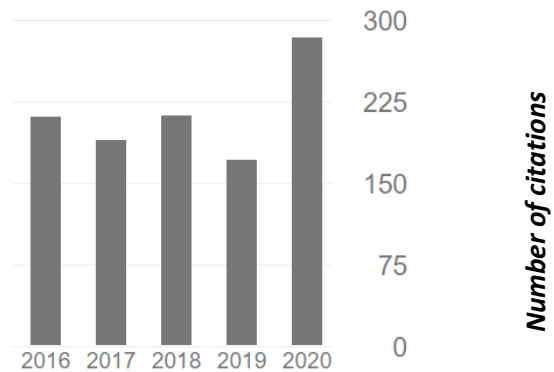
- Member of Management Committee for COST P21 action: *The Physics of droplets* 2006-2010
- Project leader of Nordforsk funded Nordic Researcher Network in *Soft Matter Physics* 2010-2014: NORDSOFT, including ~100 scientists in ~10 groups/universities in Denmark, Finland, Norway, Sweden.
- Member of Management Committee for COST action MP1305: *Flowing matter*, May 2014 - May 2018.
- Co-leader of CNPq (Brazil) Science without Borders project at Pontificia Universidade Catolica do Rio de Janeiro (PUC-Rio) (Project leader at PUC-Rio: Prof. Marcio Carvalho) 2012-2015
- Project leader of M-Era.Net project: *Fabricating cellulose nanocomposites for structural coloration*, July 2017 – August 2020
- WP-leader in “*Pickering emulsions for food applications*”, Horizon2020 MSCA-ITN-ETN, coordinated from DTU Denmark, J.O. Fossum is one of the WP leaders. 22 beneficiaries/partners worldwide.

TRACK RECORD

The total number of peer reviewed publications during the career: >120; In addition: >80 invited scientific talks internationally, and >300 conference contributions (talks, posters etc). H-index 30 (February 2021)

Google Scholar Citations:

	All	Since 2016
Citations	2614	1096
h-index	30	18
i10-index	64	37

**List of ten selected publications, (In parenthesis number of citations listed in Google Citations Feb. 2021):**

1. *Minute synthesis of extremely stable gold nanoparticles*, M Zhou, B Wang, Z Rozynek, Z Xie, JO Fossum, X Yu, S Raen, **Nanotechnology** 20, 505606 (2009) **(112)**
2. *Active structuring of colloidal armour on liquid drops*, P Dommersnes, Z Rozynek, A Mikkelsen, R Castberg, K Kjerstad, K Hersvik, JO Fossum, **Nature communications** 4, 1-8 (2013) **(106)**
3. *Electrorheological properties of organically modified nanolayered laponite: influence of intercalation, adsorption and wettability*, B Wang, M Zhou, Z Rozynek, JO Fossum, **Journal of Materials Chemistry** 19, 1816 (2009) **(105)**
4. *Electrorheological suspensions of laponite in oil: rheometry studies*, KPS Parmar, Y Méheust, B Schjelderupsen, JO Fossum, **Langmuir** 24, 181 (2008) **(97)**
5. *Physical phenomena in clays*, JO Fossum, **Physica A: Statistical mechanics and its applications** 270, 270 (1999) **(93)**
6. *Electroformation of Janus and patchy capsules*, Z Rozynek, A Mikkelsen, P Dommersnes, JO Fossum, **Nature communications** 5, 1 (2014) **(79)**
7. *Orientalional order in gravity dispersed clay colloids: A synchrotron x-ray scattering study of Na fluorohectorite suspensions*, E DiMasi, JO Fossum, T Gog, C Venkataraman, **Physical review E** 64, 06170 (2001) **(78)**
8. *Quick clay and landslides of clayey soils*, A Khaldoun, P Moller, A Fall, G Wegdam, B De Leeuw, Y Méheust, Yves Méheust, JO Fossum, D Bonn, **Physical review letters** 103, 188301 (2009) **(67)**
9. *Intercalation and retention of carbon dioxide in a smectite clay promoted by interlayer cations*, L Michels, JO Fossum, Z Rozynek, H Hemmen, K Rustenberg, PA Sobas, GN Kalantzopoulos, K Dahl Knudsen, M Janek, TS Plivelic, GJ da Silva, **Scientific reports** 5, 1 (2015) **(62)**
10. *Swelling transition of a clay induced by heating*, EL Hansen, H Hemmen, DM Fonseca, C Coutant, KD Knudsen, TS Plivelic, D Bonn, JO Fossum, **Scientific reports** 2, 1 (2012) **(61)**

Selected invited presentations to peer-reviewed, internationally established conferences and/or international advanced schools:

American Physical Society - APS March Meeting, Denver CO, USA, March 2-6, 2020

II Brazil-Argentine Microfluidics Congress, V Congreso de Microfluidica Argentina, Córdoba Argentina, October 22-25, 2019

104th Reunión de la Asociación Física Argentina, Santa Fe Argentina, 30 Sept. - 3 Oct. 2019

Geilo School 2019: Evolving Soft Matter: Shape, Dynamics and Functionality, Norway, March 2019

Geilo School 2017: Physics Inspired by Living Matter, Norway, March 2017

29th MAX IV Laboratory User Meeting (UM17), Lund, Sweden, March 13-15, 2017

28th Annual MAX IV Laboratory User Meeting (UM15), Lund, Sweden, September 21-23, 2015

Material Science in the Age of Sustainability, Havana, Cuba, June 2015;

Geilo School 2015: Cooperative particles: Patchy colloids, active matter and nanofluids, Norway, March 2015

The Brijuni Conference, Croatia, August 2014

Plenary lecture at 15th International Clay Conference (15ICC), Rio de Janeiro, Brazil, July 2013

New materials in the Age of Convergence, Havana, Cuba, March 2012

Geilo School 2011; Cooperative Phenomena in Flows, Norway April 2011

MRS Fall Meeting, Symposium D: Materials in Transition-Insights from Synchrotron and Neutron Sources, Boston, USA, November 2007

XXVIII Encontro Nacional de Física da Matéria Condensada, Santos, SP, Brazil, May 2005;

Geilo School 2005: Dynamics of Complex Interconnected Biosensor Systems: Networks and Bioprocesses, Norway, April 2005

Major contributions to the early careers of excellent researchers: 4 Master students, 6 PhD students, and 7 supervised postdocs are pursuing academic careers. To mention a few: Former postdocs GJ da Silva is Professor at University of Brasilia, Brazil, Y. Meheust is Professor at Univ. Rennes1, France; Former PhD student Elisabeth L. Hansen works at the Norwegian Radiation Protection Agency in Oslo.

Research expeditions: 2-4 times per year for the past 20 years; Leader of research expeditions to international synchrotron or neutron facilities such as ESRF (France), LNLS (Brazil), MaxLab (Sweden), PLS (S-Korea), ANL and BNL (USA), Diamond (UK), ALBA (Spain), BESSY (Germany), ISIS (UK) and others.

Full publication list:

Academic and professional publications past 5 years:

1. *Exfoliation of carboxymethylcellulose-intercalated layered double hydroxide in water*, Gustavo F. Perotti, Jéssica R. Bortotti, Filipe S. Lima, Leander Michels, Everton C. dos Santos, Mário A. S. Altoé, Giovanni Grassi, Geraldo J. Silva, Roosevelt Droppa-Jr, Jon O. Fossum, Vera R. L. Constantino, *Applied Clay Science* 205, 106005 (2021)
2. *Controlled Sample Environment for Studying Solid-Gas Interactions by in situ Powder X-ray Diffraction*, Paul Monceyron Røren, Kristoffer William Bø Hunvik, Vegard Josvanger, Ole Tore Buset and Jon Otto Fossum, *Journal of Applied Crystallography* 54, 1-5 (2021)
3. *Unmodified Clay Nanosheets at the Air–Water Interface*, Paulo H. Michels-Brito, Antonio Malfatti-Gasperini, Lina Mayr, Ximena Puentes-Martinez, Rômulo P. Tenório, Daniel R. Wagner, Kenneth D. Knudsen, Koiti Araki, Rafael G. Oliveira, Josef Breu, Leide P. Cavalcanti, Jon Otto Fossum, *Langmuir* 37, 160–170 (2021)
4. *Experimental methods to study clay minerals and perspective applications of Fluorohectorite*, P. H. Michels-Brito, L. Michels, K. W. B. Hunvik, E. C. dos Santos, B. Pacáková, L. P. Cavalcanti, K. D. Knudsen, H. N. Bordallo and J. O. Fossum, *OAJ Materials and Devices* 5 (2021), also published as chap No 21, p 601 in *Perovskites and other framework structure crystalline materials: new trends and perspectives*, DOI:10.23647/ca.md20201501
5. *CO₂ Capture by Nickel Hydroxide Interstratified in the Nanolayered Space of a Synthetic Clay Mineral*, Kristoffer W. Bø Hunvik, Patrick Loch, Leide P. Cavalcanti, Konstanse Kvaem Seljelid, Paul Monceyron Røren, Svemir Rudic, Dirk Wallacher, Alessandro Kirch, Kenneth Dahl Knudsen, Caetano Rodrigues Miranda, Josef Breu, Heloisa N. Bordallo and Jon Otto Fossum, *Journal of Physical Chemistry C* 124, 26222–26231 (2020)
6. *Impact of Thermal History on Water Adsorption in a Synthetic Nanolayered Silicate with Intercalated Li⁺ or Na⁺*, L. Michels, C. L. S. da Fonseca, Y. Méheust, M. A. S. Altoé, E. C. dos Santos, G. Grassi, R. Droppa Jr., K. D. Knudsen, L. P. Cavalcanti, K. W. B. Hunvik, J. O. Fossum, G. J. da Silva, and H. N. Bordallo, *Journal of Physical Chemistry C* 124, 24690–24703 (2020)
7. *Spontaneous Formation of an Ordered Interstratification upon Ni-exchange*, Patrick Loch, Kristoffer William Bø Hunvik, Florian Puchtler, Sebastian Weiß, Konstanse Kvaem Seljelid, Paul Monceyron Røren, Svemir Rudic, Steinar Raaen, Kenneth Dahl Knudsen, Heloisa N. Bordallo, Jon Otto Fossum, Josef Breu, *Applied Clay Science* 198, 105831 (2020)

8. *Clay nanolayer encapsulation, evolving from origins of life to future technologies*, Jon Otto Fossum, European Physical Journal Special Topics 229, 2863–2879 (2020)
9. *Photonic Composite Materials from Cellulose Nanorods and Clay Nanolayers*, Ana C. Trindade, Miguel Carreto, Geir Helgesen, Kenneth D. Knudsen, Florian Puchtler, Josef Breu, Susete Fernandes, Maria Helena Godinho, Jon Otto Fossum, European Physical Journal Special Topics 229, 2741–2755 (2020)
10. *Physicochemical characterisation of fluorohectorite: Water dynamics and nanocarrier properties*, Simon R. Larsen, Leander Michels, Éverton C. dos Santos, Marcella C. Berg, Will P. Gates, Laurie P. Aldridge, Tilo Seydel, Jacques Ollivier, Mark T.F. Telling, Jon Otto Fossum, Heloisa N. Bordallo, Microporous and Mesoporous Materials 306, 110512 (2020)
11. *Water vapor diffusive transport in a smectite clay: Cationic control of normal versus anomalous diffusion*, Leander Michels, Yves Méheust, Mario A. S. Altoé, Éverton C. dos Santos, Henrik Hemmen, Roosevelt Droppa, Jr., Jon O. Fossum, and Geraldo J. da Silva, Phys. Rev. E 99, 013102 (2019)
12. *Active structuring of colloids through field-driven self-assembly*, Ville Liljeström, Chen Chen, Paul Dommersnes, Jon Otto Fossum, André H. Gröschel, Current Opinion in Colloid & Interface Science 40, 25-41 (2019)
13. *A nano-silicate material with exceptional capacity for CO₂ capture and storage at room temperature*, L. P. Cavalcanti, G. N. Kalantzopoulos, J. Eckert, K. D. Knudsen & J. O. Fossum, **Scientific Reports** 8, 11827 (2018)
14. *The pH influence on the intercalation of the bioactive agent ciprofloxacin in fluorohectorite*, E.C. dos Santos, W.P. Gates, L. Michels, L. Juranyi, A. Mikkelsen, G.J. da Silva, J.O. Fossum, H.N. Bordallo, Applied Clay Science 166, 288 - 298 (2018)
15. *Sample cell for studying liquid interfaces with an in situ electric field using X-ray reflectivity and application to clay particles at oil–oil interfaces*, Simon R. Larsen, Marie Hansteen, Barbara Pacakova, Keld Theodor, Thomas Arnold, Adrian R. Rennie, Geir Helgesen, Kenneth D. Knudsen, Heloisa N. Bordallo, Jon Otto Fossum and Leide P. Cavalcanti, J. Synchrotron Radiat 25, 915–917 (2018)
16. *A simple way for targeted delivery of an antibiotic: In vitro evaluation of a nanoclaybased composite*, Leslie Valdes, Irela Perez, Louis Charles de Menorval, Ernesto Altshuler, Jon Otto Fossum, Aramis Rivera, PLoS ONE 12(11): e0187879 (<https://doi.org/10.1371/journal.pone.0187879>) (2017)
17. *Ciprofloxacin intercalated in fluorohectorite clay: Identical pure drug activity and toxicity with higher adsorption and controlled release rates*, E.C. dos Santos, Z. Rozynek, E.L. Hansen, R. Hartmann-Petersen, R.N. Klitgaard, A. Loebner-Olesen, L. Michels, A. Mikkelsen, T.S. Plivelic, H.N. Bordallo, J.O. Fossum, RSC Advances 7, 26537-26545 (2017)
18. *Mechanics of Pickering Drops Probed by Electric Field Induced Stress*, A. Mikkelsen, P. Dommersnes, Z. Rozynek, A. Gholamipour-Shirazi, M. da S. Carvalho and J. O. Fossum Materials 10, 436 (2017)
19. *Transient deformation dynamics of particle laden droplets in electric field*, Alexander Mikkelsen, Zbigniew Rozynek, Khobaib Khobaib, Paul Dommersnes, Jon Otto Fossum, Colloids and Surfaces A: Physicochemical and Engineering Aspects, doi: 10.1016/j.colsurfa.2017.05.010 (2017)
20. *Transition from glass- to gel-like states in clay at a liquid interface*, A. Gholamipour-Shirazi, M. S. Carvalho, M. F. G. Huila, K. Araki, P. Dommersnes & J. O. Fossum, **Scientific Reports** 6: 37239 doi:10.1038/srep37239 (2016)
21. *Electro-hydrodynamic propulsion of counter-rotating Pickering drops*, P. Dommersnes, A. Mikkelsen and J.O. Fossum, European Physical Journal Special Topics 225 (4), 699-706 DOI: 10.1140/epjst/e2016-60090-2 (2016)
22. *Surface structuring of particle laden drops using electric fields*, P. Dommersnes and J.O. Fossum, European Physical Journal Special Topics 225 (4), 715-728 DOI: 10.1140/epjst/e2016-60013-9 (2016)
23. *Controlled microfluidic emulsification of oil in a clay nanofluid: Role of salt for Pickering stabilization*, A. Gholamipour-Shirazi, M.S. Carvalho and J.O. Fossum, European Physical Journal Special Topics 225 (4), 757-756 DOI: 10.1140/epjst/e2016-60002-0 (2016)
24. *Incorporation of tramadol drug into Li-fluorohectorite clay: A preliminary study of a medical nanofluid*, L. Valdés, D. Hernández, L. Ch. de Menorval, I. Pérez, E. Altshuler, J.O. Fossum and A. Rivera, European Physical Journal Special Topics 225 (4), 767-771 DOI: 10.1140/epjst/e2016-60090-2 (2016)

25. *Electric-stress-induced Slip Lines in Jammed Particle Monolayers*, A. Mikkelsen, P. Dommersnes, J. O. Fossum, *Revista Cubana De Fisica*, 33 (1) 50-52 (2016)
26. *Análise da Reflexão 001 da Níquel-Fluorohectorita por Difração de Raios X Síncrotron*, de Oliveira, J. S.; Sousa, M. H.; Michels, L.; Fossum, J. O.; da Silva, G. J.; Mundim, K. C.; Ribeiro, L. *Rev. Virtual Quim.* 8 (2), 493-505 DOI: 10.5935/1984-6835.20160036 (2016)
27. *Smectite as ciprofloxacin delivery system: Intercalation and temperature-controlled release properties*, A. Rivera, L. Valdés, J. Jiménez, I. Pérez, A. Lam, E. Altshuler, L.C. de Ménorval, J.O. Fossum, E.L. Hansen, Z. Rozynek, *Applied Clay Science* 124-125, 150-156 doi: 10.1016/j.clay.2016.02.006 (2016)
28. *Continuous water adsorption states promoted by Ni²⁺ confined in a synthetic smectite*, M.A.S. Altoé, L. Michels, E.C. dos Santos, R. Droppa Jr, G. Grassi, L. Ribeiro, K.D. Knudsen, H.N. Bordallo, J.O. Fossum, G.J. da Silva, *Applied Clay Science* 123, 83-91 doi: 10.1016/j.clay.2016.01.012 (2016)
29. *Intercalation and Retention of Carbon Dioxide in a Smectite Clay promoted by Interlayer Cation*, L. Michels, J. O. Fossum, Z. Rozynek, H. Hemmen, K. Rustenberg, P. A. Sobas, G. N. Kalantzopoulos, K. D. Knudsen, M. Janek, T. S. Plivelic & G. J. da Silva, **Scientific Reports** 5: 8775 doi:10.1038/srep08775 (2015)
30. *Anisotropic clay-polystyrene nanocomposites: Synthesis, characterization and mechanical properties*, Henrik Mauroy, Tomás S. Plivelic, Jussi-Petteri Suuronen, Fredrik S. Hage, Jon Otto Fossum, Kenneth D. Knudsen, *Applied Clay Science* 108 19–27, doi: 10.1016/j.clay.2015.01.034 (2015)

Earlier (before 2015) scientific publications:

31. *Electroformation of Janus and patchy capsules*, Zbigniew Rozynek, Alexander Mikkelsen, Paul Dommersnes & Jon Otto Fossum, **Nature Communications**, 5:3945, DOI: 10.1038/ncomms4945 (2014).
32. *EXAFS and XRD studies in synthetic Ni-Fluorohectorite*, Leander Michels; Luciano Ribeiro; Maria Suely Pedrosa Mundim; Marcelo Henrique Sousa; Roosevelt Droppa Jr.; Jon Otto Fossum; Geraldo José da Silva; Kleber Carlos Mundim, *Appl. Clay Science* 96, 60-66, DOI: 10.1016/j.clay.2014.04.031 (2014).
33. *Polypropylene-organoclay nanocomposites under different electric field strengths*, Zbigniew Rozynek; Suedina Maria de Lima Silva; Jon Otto Fossum; Geraldo José da Silva; Eduardo Novais de Azevedo; Henrik Mauroy; Tomás Plivelic, *Appl. Clay Science* 96, 67-72, DOI: 10.1016/j.clay.2014.03.011 (2014).
34. *Electrohydrodynamic controlled assembly and fracturing of thin colloidal particle films confined at drop interfaces*, Zbigniew Rozynek, Paul Dommersnes, Alexander Mikkelsen, Leander Michels and Jon Otto Fossum, *European Physical Journal Special Topics* 223, 1859–1867, DOI: 10.1140/epjst/e2014-02231-x (2014).
35. *Cation Exchange Dynamics Confined in a Synthetic Clay Mineral*, G. Grassi, L. Michels, Z. Rozynek, M.A.S. Altoé, E.C dos Santos, C.L.S. da Fonseca, R. Droppa Jr., A. Gholamipour-Shirazi, J. O. Fossum, and G.J. da Silva, *European Physical Journal Special Topics* 223, 1883–1893, DOI: 10.1140/epjst/e2014-02233-8 (2014)
36. *Orientalional order in a glass of charged platelets with a concentration gradient*, E.L. Hansen, S. Jabbari-Farouji, H. Mauroy, T.S. Plivelic, D. Bonn, J. O. Fossum, *Soft Matter*, 9, 9999-10004, DOI: 10.1039/C3SM52103F (2013)
37. *The Effect of Clay Surface Charge on the Emerging Properties of Polystyrene-organoclay Nanocomposites*, H. Mauroy, T. Plivelic, E.L. Hansen, J.O. Fossum; G. Helgesen, K.D. Knudsen, *J.Phys. Chem C*, 117 (38), 19656–19663, DOI: 10.1021/jp403379h (2013)
38. *Active structuring of colloidal armour on liquid drops*, P Dommersnes, Z Rozynek, A Mikkelsen, R Castberg, K Kjerstad, K Hersvik & J O Fossum, **Nature Communications** 4:2066, DOI: 10.1038/ncomms3066 (2013)
39. *Electric field nematic alignment of fluorohectorite clay particles in oligomeric matrices*, Z Rozynek, R Castberg, J O Fossum, and A Mikkelsen, *J. Mat. Res.* 28, 1349-1355 (2013)
40. *Rheological study of dextran modified magnetite nanoparticles suspended in water*, A Józefczak, T Hornowski, Z Rozynek, A Skumiel and J O Fossum, *Int. J. Thermophys.* 34, 609–619 (2013)
41. *Electric-field-induced structuring and rheological properties of kaolinite and halloysite*, Z Rozynek, T Zacher, M Janek, M Caplovicová and J O Fossum, *Appl. Clay Sci.* 77-78, 1-9 (2013)

42. *Oxygen-Controlled Phase Segregation in Poly(N-isopropylacrylamide)/Laponite Nanocomposite Hydrogels*. Henrik Mauroy, Zbigniew Rozynek, Tomás S. Plivelic, Jon Otto Fossum, Geir Helgesen, and Kenneth D. Knudsen, *Langmuir* 29, 371-379 DOI: 10.1021/la303889s (2013)
43. *Swelling transition of a clay induced by heating*, E. L. Hansen, H. Hemmen, D. M. Fonseca, C. Coutant, K. D. Knudsen, T. S. Plivelic, D. Bonn, J. O. Fossum, **Scientific Reports** 2, 618 (2012)
44. *Flow of Clays*, Jon Otto Fossum, *European Physical Journal Special Topics* 204, 41-56, doi: 10.1140/epjst/e2012-01551-1 (2012)
45. *Guided self-assembly of nanostructured titanium oxide*, Wang, Baoxiang; Rozynek, Zbigniew; Fossum Jon Otto; Knudsen, Kenneth D; Yu, Yingda, *Nanotechnology* 23, 075706 doi: 10.1088/0957-4484/23/7/075706 (2012)
46. *Guided self-assembly of nanostructured titanium oxide*, Wang, Baoxiang; Rozynek, Zbigniew; Fossum Jon Otto; Knudsen, Kenneth D; Yu, Yingda, *Nanotechnology* 23, 279502 doi:10.1088/0957-4484/23/27/279502 (2012)
47. *Dipolar structuring of organically modified fluorohectorite clay particles*, Rozynek, Z., Wang, B., Fossum J.O., Knudsen, K.D., *European Phys. J I E* 35, 27239502 doi: 10.1140/epje/i2012-12009-x (2012)
48. *X-ray Studies of Carbon Dioxide Intercalation in Na-Fluorohectorite Clay at Near-Ambient Conditions*, Henrik Hemmen, Erlend G. Rolseth, Davi M. Fonseca, Elisabeth L. Hansen, Jon Otto Fossum and Tomás S. Plivelic, *Langmuir* 28, 1678-1682 DOI: 10.1021/la204164q (2012)
49. *The Frederiks transition in an aqueous clay dispersion*, H. Hemmen, E. L. Hansen, N. I. Ringdal and J.O. Fossum, *Cuban Journal of Physics, Revista Cubana de Fisica*, vol. 29-1E, 59-61, <http://www.fisica.uh.cu/biblioteca/revcubfis/> (2012)
50. *Dipolar ordering of clay particles in various carrier fluids*, Z. Rozynek, H. Mauroy, R. Ch. Castberg, K. D. Knudsen and J.O. Fossum, *Cuban Journal of Physics, Revista Cubana de Fisica*, vol. 29-1E, 37-41, <http://www.fisica.uh.cu/biblioteca/revcubfis/> (2012)
51. *Clay alignment in electric fields*, R. Castberg, Z. Rozynek, J. O. Fossum, K. J. Måløy, P. Dommersnes and E. G. Flekkøy, *Cuban Journal of Physics, Revista Cubana de Fisica*, vol. 29-1E, 17-19, <http://www.fisica.uh.cu/biblioteca/revcubfis/> (2012)
52. *Roughness of Fractures in Laponite Gels Determined by Magnetic Resonance Imaging*, H. Hemmen, E. N. de Azevedo, M. Engelsberg, and J.O. Fossum, *Proceedings of 2nd Int. Workshop on Complex Physical Phenomena in Materials, Porto de Galinhas - PE, Brazil, Jan. 31- Feb. 3, 2012*, eds. G.L. Vasconcelos and J.O. Fossum, [Complexphysics.org](http://www.complexphysics.org), ISBN 978-82-93224-06-8 and 978-82-93224-07-5, <http://www.cas.uio.no/research/1112complexmatter/workshops>, p.19-22 (2012)
53. *Synchrotron X-ray scattering studies of Li-Fluorohectorite synthetic clay: Random intercalation states*, L. E. Michels, H. Hemmen, R. Droppa Jr., G. Grassi, G. J. da Silva, and J. O. Fossum, *Proceedings of 2nd Int. Workshop on Complex Physical Phenomena in Materials, Porto de Galinhas - PE, Brazil, Jan. 31- Feb. 3, 2012*, eds. G.L. Vasconcelos and J.O. Fossum, [Complexphysics.org](http://www.complexphysics.org), ISBN 978-82-93224-06-8 and 978-82-93224-07-5, <http://www.cas.uio.no/research/1112complexmatter/workshops>, p.31-34 (2012)
54. *CO₂ and porous media – SANS*, P. A. Sobas, K. D. Knudsen, G. Helgesen, A. Skjeltorp, J. O. Fossum, *Proceedings of 2nd Int. Workshop on Complex Physical Phenomena in Materials, Porto de Galinhas - PE, Brazil, Jan. 31- Feb. 3, 2012*, eds. G.L. Vasconcelos and J.O. Fossum, [Complexphysics.org](http://www.complexphysics.org), ISBN 978-82-93224-06-8 and 978-82-93224-07-5, <http://www.cas.uio.no/research/1112complexmatter/workshops/>, p.49-50 (2012)
55. *Mueller matrix imaging of nematic textures in colloidal dispersions of Na-fluorohectorite synthetic clay*, Morten Kildemo, Lars M.S. Aas, Pål G. Ellingsen, Henrik Hemmen, Elisabeth Lindbo Hansen, Jon Otto Fossum, *Optical Measurement Systems for Ind. Inspec. VII: Proceedings of SPIE*, 8082, 808221 (2011)
56. *The electrorheology of suspensions of Na-fluorohectorite*, Yves Méheust, Kanak Parmar, Børge Schjelderupsen and Jon Otto Fossum, *J. Rheol.* 55, 809-833 (2011)
57. *Structuring from nanoparticles in oil-based ferrofluids*, Z. Rozynek, A. Jozefczak, K. D. Knudsen, A. Skumiel, T. Hornowski, J.O. Fossum, M. Timko, P. Kopcansky, M. Koneracka, *Eur. Phys. J. E* 34, 28 (2011)
58. *Erratum: X-ray studies of interlayer water absorption and mesoporous water transport in a weakly hydrated clay*, H. Hemmen, Y. Meheust, J.O. Fossum, *Phys.Rev. E* 83, 019901(E) (2011)

59. *Estudo dos Processos de Intercalação de Água em Nanosilicatos Sintéticos Utilizando Radiação Síncrotron*, Ribeiro, L., Silva, G. J. da, Mundim, M. S. P., Sousa, M. H., Fossum, J. O., & Mundim, K. C., *Revista Processos Químicos*, 5(10) 56-74 (2011)
60. *X-ray studies of interlayer water absorption and mesoporous water transport in a weakly hydrated clay*, H. Hemmen, L.R. Alme, J.O. Fossum and Y. Meheust, *Phys.Rev. E* 82, 036315 (2010)
61. *Electric field induced structuring in clay–oil suspensions: New insights from WAXS, SEM, leak current, dielectric permittivity, and rheometry*, Z Rozynek, K D Knudsen, J O Fossum, Y Meheust, B Wang and M Zhou, *J. Phys.: Condens. Matter* 22, 324104 (2010)
62. *Intercalated Water in Synthetic Fluorhectorite Clay*, Romulo P. Tenorio, M. Engelsberg, Jon Otto Fossum and Geraldo J. da Silva, *Langmuir* 26, 9703 (2010)
63. *Nematic textures in colloidal dispersions of Na-fluorhectorite synthetic clay*, N.I. Ringdal, D.M. Fonseca, E.L. Hansen, H. Hemmen, and J.O. Fossum, *Phys.Rev. E* 81, 041702 (2010)
64. *Carbonate-Assisted Hydrothermal Synthesis of Nanoporous CuO Microstructures and Their Application in Catalysis*, Min Zhou, Yan'an Gao, Baoxiang Wang, Zbigniew Rozynek, Jon Otto Fossum, *Eur. J. Inorg. Chem.* 2010 729-734 (2010)
65. *Minute synthesis of extremely stable gold nanoparticles*, Min Zhou, Baoxiang Wang, Zbigniew Rozynek, Zhaohui Xie, Jon Otto Fossum, Xiaofeng Yu and Steinar Raaen, *Nanotechnology* 20, 505606 (2009)
66. *Quickclay and Landslides of Clayey Soils*, A. Khaldoun, P. Moller, A. Fall, G. Wegdam, B. De Leeuw, Y. Meheust, J.O. Fossum, *D. Bonn, Phys. Rev. Lett.* 103, 188301 (2009)
67. *The Isotropic-Nematic Interface in Suspensions of Na-Fluorhectorite Synthetic Clay*, Henrik Hemmen, Nils I. Ringdal, Eduardo N. De Azevedo, Mario Engelsberg, Elisabeth L. Hansen, Yves Meheust, Jon O. Fossum and Kenneth D. Knudsen, *Langmuir* 25, 12507–12515 (2009)
68. *Gravitational and Magnetic Separation in Self-Assembled Clay-Ferrofluid Nanocomposites*, F.L.O. Paula, G.J. da Silva, R. Aquino, J. Depeyrot, J.O. Fossum, K.D. Knudsen, G. Helgesen, F.A. Tourinho, *Brazilian Journal of Physics* 39, 163-170 (2009)
69. *Electrorheological properties of organically modified nanolayered laponite: Influence of intercalation, adsorption and wettability*, Baoxiang Wang, Min Zhou, Zbigniew Rozynek and Jon Otto Fossum, *J. Mater. Chem.* 19, 1816 (2009)
70. *Dynamic Column Formation in Na-FLHC Clay Particles: Wide Angle X-ray Scattering and Rheological Studies*, Z. Rozynek, B. Wang, M. Zhou, and J.O. Fossum, *J. of Physics: Conf. Ser.* 149, 012026 (2009)
71. *Wide angle scattering study of nanolayered clay/gelatin electrorheological elastomer*, B. Wang, Z. Rozynek, M. Zhou and J.O. Fossum, *Journal of Physics: Conference Series* 149, 012032 (2009)
72. *Phase diagram of polydisperse Na fluorohectorite--water suspensions: A synchrotron small angle x-ray scattering study*, D. d. M. Fonseca, Y. Meheust, J.O. Fossum, K.D. Knudsen and K.P.S. Parmar, *Phys. Rev. E* 79, 021402 (2009)
73. *Fluid imbibition in paper fibers: Precursor front*, Eduardo N. de Azevedo, Lars R. Alme, M. Engelsberg, Jon Otto Fossum and Paul Dommersnes, *Phys. Rev. E* 78, 066317 (2008)
74. *New advances in the 3D characterization of mineral coating layers on paper*, Chinga-Carrasco G., Kauko H., Myllis M., Timonen J., Wang B., Zhou M. and Fossum J.O., *J. Microscopy* 232, 212 (2008)
75. *Electrorheological suspensions of laponite in oil: Rheometry studies*, Kanak Parmar, Yves Méheust, Børge Schjelderupsen and Jon Otto Fossum, *Langmuir* 24, 1814 (2008)
76. *Geometry and Dynamics of Intercalated Water in Na-Fluorhectorite Clay Hydrates*, Romulo Tenorio, Lars Alme, Mario Engelsberg, Jon Otto Fossum and Fernando Hallwass, *J. Phys. Chem. C*, 112,575 (2008)
77. *Anisotropic water diffusion in nematic self-assemblies of clay nano-platelets suspended in water*. E.N. de Azevedo, M. Engelsberg, J.O. Fossum and R.E. de Souza. *Langmuir* 23, 5100 (2007)
78. *Electric polarisation and chain formation of nanolayered particles*. J.O. Fossum, Y. Méheust, K.P.S. Parmar, K.D. Knudsen, K.J. Måløy and D. d. M. Fonseca. *European Synchrotron Radiation Facility, ESRF Scientific Highlights* 2006, Published February 2007
79. *Small-angle X-ray and small-angle neutron scattering investigations of colloidal dispersions of magnetic nanoparticles and clay nanoplatelets*. F.L.O. Paula, R. Aquino, G.J. da Silva, J. Depeyrot, F.A. Tourinho, J.O. Fossum and K.D. Knudsen. *J. Appl. Cryst.* 40, 269 (2007)

80. *Mesoscopic structure of dry-pressed clay samples from small-angle X-ray scattering measurements.* Yves Meheust, Simon Dagois-Bohy, K. D. Knudsen, Jon Otto Fossum. *J. Appl. Cryst.* 40, 286 (2007)
81. *Phase behavior of platelet-shaped nanosilicate colloids in saline solutions: A small-angle X-ray scattering study.* D. d. M. Fonseca, Y. Méheust, J.O. Fossum, K.D. Knudsen, K.J. Måløy and K.P.S. Parmar. *J. Appl. Cryst.* 40, 292 (2007)
82. *Temperature investigation of intercalation and diffusion processes in synthetic nanosilicates by means of synchrotron X-ray absorption spectroscopy.* L. Ribeiro, M.S.P. Mundim, G.J da Silva, J.O. Fossum and K.C. Mundim. *Journal of Electron Spectroscopy and Related Phenomena* 156: XCIV MAY (2007)
83. *Inferring orientation distributions in anisotropic powders of nano-layered crystallites from a single two-dimensional WAXS image,* Y. Meheust, K.D. Knudsen and J.O. Fossum, *J. Appl. Cryst.* 39, 661 (2006)
84. *Universal Networks and Processes in Soft and Complex Matter: From Nano to Macro,* J.O. Fossum, in *Dynamics of Complex Interconnected Biosensor Systems: Networks and Bioprocesses*, p.175-190, A.T. Skjeltorp and A.V. Belushkin eds., Springer (2006)
85. *Using synchrotron X-ray scattering to study the diffusion of water in a weakly-hydrated clay sample,* Y. Meheust, B. Sandnes, G. Løvoll, K.J. Måløy, J.O. Fossum, G.J. da Silva, M.S.P. Mundim, R. Droppa and D.de Miranda Fonseca, *Clay Science*, 12, 66 (2006)
86. *Intercalation-enhanced electric polarization and chain formation of nano-layered particles,* J.O. Fossum, Y. Méheust, K.P.S. Parmar, K.D. Knudsen, K.J. Måløy and D. d. M. Fonseca, *Europhys. Lett.*, 74, 438-444 (2006)
87. *Dynamics of water intercalation fronts in a nano-layered synthetic silicate: A synchrotron X-ray scattering study,* G. Løvoll, B. Sandnes, Y. Méheust, K.J. Måløy, J.O. Fossum, G.J. da Silva, M.S.P. Mundim, R. Droppa Jr. and D. d. M. Fonseca, *Physica B: Condensed Matter*, 370, 90 (2005)
88. *Observations of orientational ordering in aqueous suspensions of a nano-layered silicate,* J.O. Fossum, E. Gudding, D. d. M. Fonseca, Y. Meheust, E. DiMasi, T. Gog and C. Venkataraman, *Energy The International Journal*, Volume 3, 873 (2005)
89. *Small-angle neutron scattering from a nano-layered synthetic silicate,* K.D. Knudsen, J.O. Fossum, G. Helgesen and M.W. Haakestad, *Physica B: Condensed Matter*, 352, 247 (2004)
90. *Self-affine crossover length in a layered silicate deposit,* J.O. Fossum, H.H. Bergene, Alex Hansen, B. O'Rourke, and G. Manificat, *Phys.Rev. E* 69, 011303 (2004)
91. *Synchrotron X-ray Study of Hydration Dynamics in the Synthetic Swelling Clay Na-Fluorohectorite,* E. DiMasi, J.O. Fossum, and G.J. da Silva, *Proceedings of the 12th International Clay Conference*, Bahia Blanca, Argentina (2003)
92. *Hydration transitions in a nanolayered synthetic silicate: A synchrotron X-ray scattering study,* G.J. da Silva, J.O. Fossum, E. DiMasi, and K.J. Måløy, *Phys.Rev. B* 67, 094114 (2003)
93. *Pore characteristics and water absorption in a synthetic smectite clay,* Kenneth D. Knudsen, Jon Otto Fossum, Geir Helgesen and Vegard Bergaplass, *J. Appl. Cryst.* 36, 587 (2003)
94. *Synchrotron x-ray scattering studies of water intercalation in a layered synthetic silicate,* G. J. da Silva, J.O. Fossum, E. DiMasi, K.J. Måløy, and S.B. Lutnæs, *Phys.Rev. E* 66, 011303 (2002)
95. *Viscosity and transient electric birefringence study of clay colloidal aggregation,* Audun Bakk, Jon O. Fossum, Geraldo J. da Silva, Hans M. Adland, Arne Mikkelsen and Arnljot Elgsaeter, *Phys.Rev. E* 65, 021407 (2002)
96. *Orientational order in gravity dispersed clay colloids: A synchrotron x-ray scattering study of Na-fluorohectorite suspensions,* E. DiMasi, J.O. Fossum, T. Gog, and C. Venkataraman, *Phys.Rev. E* 64, 061704 (2001)
97. *Complex Physical Phenomena in Clays,* J.O. Fossum, in *Soft Condensed Matter: Configurations, Dynamics and Functionality*, p. 269-279, A.T. Skjeltorp and S.F. Edwards eds., Kluwer Academic Publ., the Netherlands (2000)
98. *Physical Phenomena in Clays,* J.O. Fossum, *Physica A* 270, 270 (1999)
99. *IV measurements and scaling analyses of Ag/Bi2223 tapes,* Karkut MG, Fossum JO, Tuset P, Ting W, Fossheim K, *Applied Superconductivity* 1995, Vol. 1 and 2, IoP Conference Series 148: 455-458 (1995)

100. *Synchrotron X-ray Study of Dimensional Cross-Over in Solid Phase Smectic Liquid Crystal Films*, D.Y. Noh, J.D. Brock, J.O. Fossum, J.P. Hill, W.J. Nuttall, J.D. Litster and R.J. Birgeneau, Phys. Rev. B 43, 842 (1991)
101. *Dynamics of Orientational Glass Formation in Rb(CN)_xBr_{1-x} Mixed Crystals*, C.W. Garland, J.O. Fossum, Z. Hu and A. Wells, Phys. Rev. B 41, 12210 (1990)
102. *Line Focus Acoustic Lens with Wedge Transducer Source*. David J., Cheeke N., Fossum J.O., Rene N., In: Shimizu H., Chubachi N., Kushibiki J. (eds) *Acoustical Imaging 17*, 159-166 Springer (1989)
103. *Quenched Random Strain Fields and Lattice Mediated Interactions in K(CN)_x(Br,Cl)_{1-x}* J.O. Fossum and C.W. Garland, J. Chem. Phys. 89, 7441 (1988)
104. *Random and Orientational Order in Rb(CN)_xBr_{1-x} Mixed Crystals: A Study of Static Shear Elasticity* J.O. Fossum, A. Wells and C.W. Garland, Phys. Rev. B 38, 412 (1988)
105. *Experimental Evidence for Quenched Random Strain Fields in Mixed Cyanide Crystals*, J.O. Fossum and C.W. Garland, Phys. Rev. Lett. 60, 592 (1988)
106. *Some Aspects of Defects Influence on Structural Phase Transitions*, E. Sandvold, T. Læg Reid, K. Fossheim and J.O., Fossum, Phase Transitions 11, 145 (1988)
107. *Shear Elasticity of K_xRb_{1-x}CN Mixed Crystals*, C.W. Garland, J.O. Fossum, A. Wells, Phys. Rev. B 38, 5640 (1988)
108. *Critical Ultrasonic Behaviour near the Normal - Incommensurate Phase Transition in NaNO₂*, J. Hu, J.O. Fossum, C.W. Garland and P.W. Wallace, Phys. Rev. B 33, 6331 (1986)
109. *Acoustic Microscopy Applied to Measurements of Sound Absorption in Liquid Propane*, J.O. Fossum and J.D.N. Cheeke, J. Acoust. Soc. Am. 79, 983 (1986)
110. *Acoustic Microscopy Applied to Physical Acoustics*, J.O. Fossum and J.D.N. Cheeke, Rev. Sci. Inst. 57, 636 (1986)
111. *Ultrasonic Study of Phase Transitions by Acoustic Microscopy*, J.O. Fossum and J.D.N. Cheeke, Journal de physique C 10, 755 (1986)
112. *Anomalous Sound Attenuation in Ammonium Aluminium Alum*, J.O. Fossum, B.O. Fimland and I. Svare, Phys. Rev. B 33, 1434 (1986)
113. *Measurements of Ultrasonic Attenuation and Velocity in Verneuil - Grown and Flux - Grown SrTiO₃* J.O. Fossum and K. Fossheim, Journal of Physics C 18, 5549 (1985)
114. *A Phenomenological Analysis of Ultrasound near Phase Transitions*, J.O. Fossum, Jour. Physics C 18, 5531 (1985)
115. *Ultrasonic Measurements of the Phase Transition in Flux - Grown SrTiO₃*, J.O. Fossum, K. Fossheim and H.J. Scheel, Sol. St. Comm. 51, 839 (1984)
116. *Ultrasonic Measurements of the C₃₃ - anomaly above the Phase Transition in KDP*, T. Læg Reid, J.O. Fossum and K. Fossheim, Ferroelectrics 54, 289 (1984)
117. *Ultrasonic Measurements above the Phase Transition in SrTiO₃*, J.O. Fossum, K. Fossheim, Ferroelectrics 54, 289 (1984)
118. *Critical Dynamics of Sound*, K. Fossheim and J.O. Fossum, NATO ASI on Multicritical Phenomena, R. Pynn and A. Skjeltorp eds., Plenum NY p.113 (1984)
119. *Phonon Echoes in Piezoceramic Lead-Zirconate-Titanate*, R.M. Holt, J.O. Fossum, Appl. Phys. Lett. 42, 787 (1983)
120. *Phonon Echoes in CdS and Related Piezoelectric Semiconductors*, J.O. Fossum and R.M. Holt, Journal of Physics C 15, 6613 (1982)
121. *Echo Properties of BGO and CdS*, J.O. Fossum, H.J. Aune, K. Fossheim and R.M. Holt, Journal de physique C 6, 867 (1981)
122. *Dynamic Critical Behaviour in Sound Propagation*, R.M. Holt, K. Fossheim and J.O. Fossum, Journal de physique C 5, 1097 (1981)
123. *The Surface Barrier Rayleigh Wave Transducer*, L. Bjerkan, J.O. Fossum and K. Fossheim, J. Appl. Physics 50, 5307 (1979)

Some invited and contributed scientific talks:

1. *Advanced material science of clay minerals: from capture of carbon dioxide to structural coloration*, invited lecture, L07 "Electrostatic Manipulation of Fluids and Soft Matter", APS March Meeting, Online March 14-19, 2021
2. *Particle assembly using confined electro-hydrodynamics: Driven versus active assembly*, invited lecture, session "Electrostatic Manipulation of Fluids and Soft Matter", APS March Meeting, Denver CO, USA March 2-6, 2020, meeting was cancelled.
3. *Informal discussion about how fictionalization on the nanoscale is deterministic for properties and behaviors on the macro-scale, and how this can be characterized by means of synchrotron x-ray scattering (SIRIUS) and neutron scattering techniques*, invited talk at LMMP Group, Mechanical Engineering, Pontifica Universidade Catolica do Rio de Janeiro (PUC.Rio), October 29th, 2019
4. *How come it is of interest to study pure and applied physics, chemistry and materials science of mud?*, invited talk at Inorganic Chemistry Group, Pontifica Universidade Catolica do Rio de Janeiro (PUC.Rio), October 29th, 2019
5. *Active versus driven particle assembly in microfluidic confinement*, invited keynote lecture given at II Brazil-Argentina Microfluidics Congress, V Congreso de Microfluidica Argentina, Córdoba Argentina, Oct. 22-25, 2019
6. *Nature-inspired materials physics*, invited plenary lecture given at 104^a Reunión de la Asociación Física Argentina, Santa Fe Argentina, 30 September - 3 October 2019
7. *Clay Matters*, lecture presented at "The Geilo School 2019: Evolving Soft Matter: Shape, Dynamics and Functionality", March 11-21, 2019 at Bardøla Høyfjellshotel, Geilo, Norway
8. *Tuning Photonic Properties of Cellulose-Clay Nano Structure*, Ana Catarina Trindade, Susete Fernandes, Ville Liljeström, Matthias Daab, Josef Breu, Maria Helena Godinho, Jon Otto Fossum, talk presented at MRS Fall Meeting 2018, Boston, USA, Nov 26th 2018.
9. *Electric field induced particle assembly on oil drops: Review of electrohydrodynamic and dielectrophoretic effects*, invited talk given at Brazil-Argentina Microfluidics Congress, Pontifica Universidade Catolica do Rio de Janeiro (PUC-Rio), Brazil July 18 - July 20, 2018
10. *Clay Physics*, invited talk at Institut Charles Sadron, Univ. Strasbourg, France, June 26th, 2018
11. *Molecular interactions with clay particles*, invited talk as part of the discipline "Special Topics in Biochemistry" (NB520) at Instituto de Biologia, Universidade Estadual de Campinas (Unicamp) on June 14th, 2018
12. *Clay Physics*, invited talk at LVMH Recherche (Moët Hennessy Louis Vuitton SE Recherche), St Jean de Braye France, May 22nd, 2018
13. *Electric field controlled self-assembly of heterogeneous colloidal structures: Electrostatic, electrohydrodynamic and dielectrophoretic effects*, invited talk at Inorganic Chemistry Group, Pontifica Universidade Catolica do Rio de Janeiro (PUC.Rio), December 20th, 2017
14. *Electric field controlled self-assembly of heterogeneous colloidal structures: Electrostatic, electrohydrodynamic and dielectrophoretic effects*, invited talk at Department of Chemistry, UNICAMP, Campinas, December 7th, 2017
15. *Electric field manipulation of clay particles and structures at liquid-liquid interfaces*, invited talk presented on behalf of Paul Dommersens at 16th International Clay Conference (16ICC): Clays from the Oceans to Space, in Session NT09: Self-Organization from Clay Particles, from Nano to Macro, Granada Spain July 21st 2017
16. *Pickering emulsion stability connected to glass- or gel-like states in clay at drop interfaces*, talk given at 16th International Clay Conference (16ICC): Clays from the Oceans to Space, in Session NT13: Clay Mineral Colloids for Liquid Crystals and Soft Materials, Granada Spain July 20th 2017
17. *Synthetic smectite fluorohectorite as an inovative drug carrier: Characterization and controlled release study of ciprofloxacin*, talk presented on behalf of Everton C. dos Santos at 16th International Clay Conference (16ICC): Clays from the Oceans to Space, in Session OM02: Drug Delivery Systems based on Layered materials, Granada Spain July 17th 2017
18. *Soft Nano Science/Technology*, invited lecture at Nelson Mandela African Institute of Science and Technology (NM-AIST), Arusha, Tanzania, July 11th 2017

19. *Basic physics of drops/emulsions, in relation to applications in EOR, cosmetics, foods etc*, invited lecture at University of Dar es Salaam (UDSM), Tanzania, July 6th 2017
20. *The physics of clay minerals: From the nanoscale to the geo-scale, and everything in between*, invited lecture at University of Dar es Salaam (UDSM), Tanzania, July 5th 2017
21. *Nanoscience of Soft Materials*, invited lecture at University of Dar es Salaam (UDSM), Tanzania, July 4th 2017
22. *Electrohydrodynamics*, invited talk at Department of Marine Technology, NTNU, Trondheim June 21st, 2017
23. *Electric field controlled self-assembly of heterogeneous colloidal structures: Electrostatic, electrohydrodynamic and dielectrophoretic effects*, invited talk at School of Chemical Engineering, UNICAMP, Campinas, May 4th, 2017
24. *Electric field controlled self-assembly of heterogeneous colloidal structures: Electrostatic, electrohydrodynamic and dielectrophoretic effects*, invited talk at IMRE, Univ. Havana, Cuba, April 13th, 2017
25. *Clay Physics inspired by Living Matter, and vice versa*: Invited talk at "The Geilo School" 2017: Physics Inspired by Living Matter, March 20-30, 2017 at Bardøla Høyfjellshotel, Geilo, Norway
26. *Physical phenomena in clays; Overview of X-ray studies and related investigations*, invited talk at 29th MAX IV Laboratory User Meeting (UM17), Lund, Sweden, March 13-15, 2017
27. *Self-assembly of jammed heterogeneous colloidal shells by combining electrohydrodynamics and dielectrophoresis*, talk given at FLOWING MATTER 2017, 23 - 27th January 2017, Porto, Portugal
28. *Vapor Transport in a Porous Smectite Clay System—From Normal to Anomalous Diffusion*, talk given at 2016 MRS Fall Meeting & Exhibit, Symposium ES6 : Scientific Basis for Nuclear Waste Management, Boston, Massachusetts, USA, November 27 - December 2nd, 2016
29. *Self-assembly of jammed heterogeneous colloidal shells by combining electrohydrodynamics and dielectrophoresis*, invited talk given at Department of Chemistry, Cambridge Univ., UK, Nove. 10, 2016
30. *Self-assembly of jammed heterogeneous colloidal shells by combining electrohydrodynamics and dielectrophoresis*, invited talk at Department of Chemistry, Univ. Paris 6, France, November 9th 2016
31. *Intercalation and retention of CO₂ in smectite clays*, invited talk at Sixth Annual Niels Bohr International Academy Workshop on ESS Science (NBIA6): Structure and Dynamics in Confinement, at European Spallation Source, Lund, Sweden, 7-8 November 2016
32. *Self-assembly of jammed heterogeneous colloidal shells by combining electrohydrodynamics and dielectrophoresis*, invited talk at Institut Charles Sadron, Univ. Strasbourg, France, October 18th 2016
33. *Mechanics and rheology of pickering drops probed by electric field induced stress*, talk presented at ECIS 2016, the 30th Conference of the European Colloid and Interface Society, La Sapienza, Rome, Italy, September 4-9, 2016
34. *Dynamics of electrically guided self-assembled jammed colloidal shells on leaky dielectric drop interfaces*, talk presented in session BP1: Interfaces and compartments in soft matter and biophysics, Aug. 24th 2016, at 15th JMC-Condensed Matter Days of the French Physical Society - JMC15, Bordeaux, France August 22-26, 2016
35. *Vapor transport in a porous smectite clay: From normal to anomalous diffusion*, invited talk in session MM2: Transport Processes in Permeable Media, Aug. 22nd 2016, at 15th JMC-Condensed Matter Days of the French Physical Society – JMC15, Bordeaux, France August 22-26, 2016
36. *Self-assembly of jammed heterogeneous colloidal shells by combining electrohydrodynamics and dielectrophoresis*, invited talk given at Sungkyunkwan University, S-Korea, July 13th 2016
37. *Intercalation and Retention of CO₂ in Smectite Clays*, invited talk given at Korea Advanced Institute of Science and Technology (KAIST), Daejeon S-Korea, July 6th 2016
38. *Electro-hydrodynamic Tank-treading and Cooperative Swimming of Armored Drops*, talk given at 15th International Conference on Electrorheological Fluids and Magnetorheological Suspensions (ERM2016), Incheon, S-Korea July 5th 2016
39. *Mechanics and Rheology of Pickering Drops Probed by Electric Field Induced Stress*, talk given at 15th International Conference on Electrorheological Fluids and Magnetorheological Suspensions (ERM2016), Incheon, S-Korea July 5th 2016

40. *Soft and permeable encapsulation of fluid drops*, invited talk jointly with P. Dommersnes, Physics Department, IFE, Kjeller, Norway, May 27th 2016
41. *Nanofluids for EOR: Physicochemical mechanisms*, invited talk at IOR/EOR workshop, IRIS/University of Stavanger, Norway, April 25th 2016
42. *Clay Physics*, invited Gulliver Seminar, ESPCI-ParisTech, Paris, France, March 7, 2016
43. *Intercalation and retention of CO₂ in smectite clays*, invited talk at Geosciences at Univ. Rennes1, France March 3rd, 2016
44. *Flow of clays*, invited talk given at Clay Colloids in Aqueous Systems - BELBAR conference, Berlin, Germany, 3-4 February 2016
45. *Electromagnetic control of colloidal structures*: Invited talk given jointly with Prof. Paul Dommersnes, Department of Chemistry, Norwegian University of Science and Technology – NTNU, Trondheim, Norway, Dec. 10, 2015
46. *Clay Physics*, invited group (Aizenberg and Manoharan groups) talk Harvard University, Cambridge Massachusetts, USA, December 7, 2015
47. *Mechanics and Rheology of Pickering Films*, talk given at 2015 MRS Fall Meeting & Exhibit, Symposium J: Wetting and Soft Electrokinetics, Boston, Massachusetts, USA, November 29 - December 4, 2015
48. *Electro-Hydrodynamic Swimming*, talk given at 2015 MRS Fall Meeting & Exhibit, Symposium J: Wetting and Soft Electrokinetics, Boston, Massachusetts, USA, November 29 - December 4, 2015
49. *Intercalation and retention of CO₂ in clays*, organizers talk given at Norwegian-Brazilian Workshop on Soft and Complex Matter: From Basic Materials Phenomena to Technology, Pontificia Universidade Católica do Rio de Janeiro, Brazil, November 25, 2015
50. *Clay Science for future technologies: Some examples*, invited talk given at University of Bayreuth (Inorganic Chemistry), November 9, 2015
51. *Some “colloidal consequences” of electrohydrodynamics*, invited talk given at University of Bayreuth (Inorganic Chemistry), November 9, 2015
52. *Intercalation and retention of CO₂ in smectite clays promoted by interlayer cations*, invited talk given at University of Bayreuth (Inorganic Chemistry), November 9, 2015
53. *Clay science for future technologies: Some examples*, invited talk given at Department of Materials Technology, NTNU, Trondheim, Norway, November 6, 2015
54. *Intercalation and Retention of CO₂ by a Clay controlled by Interlayer Cations: An effective(?) and cheap(?) way of capturing CO₂*, invited talk given at 28th Annual MAX IV Laboratory User Meeting (UM15) - “Looking back..... & Forward”, Lund, Sweden, September 21-23, 2015.
55. *Intercalation and Retention of CO₂ by a Clay controlled by Interlayer Cations: An effective(?) and cheap(?) way of capturing CO₂*, invited plenary talk given at The International Conference “Material Science in the Age of Sustainability”, Havana, Cuba, June 29th - July 1st 2015.
56. *Electroformation of Janus and patchy colloidal shells as precursors for hollow structures*, invited talk given at The International Conference “Material Science in the Age of Sustainability”, Havana, Cuba, June 29th - July 1st 2015.
57. *Some “colloidal consequences” of electrohydrodynamics*, invited talk given at MarchCOMeeting'15-JuneEdition, Havana, Cuba, June 24th -26th 2015.
58. *Intercalation and Retention of CO₂ by a Clay controlled by Interlayer Cations: An effective(?) and cheap(?) way of capturing CO₂*, invited talk given during “10th Seminars of Advanced Studies on Molecular Design and Bioinformatics: The Science behind CO₂ Capture and Conversion”, Havana, Cuba, June 23rd 2015.
59. *Electrodriven colloidal assembly: Patchy and active systems*: Invited talk given jointly with Prof. Paul Dommersnes at Pontificia Universidade Catholica - PUC, Rio de Janeiro Brazil, June 1st, 2015
60. *Active structuring of colloidal particles on drops by electric fields including electroformation of Janus and patchy colloidal shells*, invited talk given at Departamento de Fisica, Universidade Federal de Pernambuco (UFPE), Recife, Brasil, May 21st, 2015
61. *Active structuring of colloidal particles on drops by electric fields including electroformation of Janus and patchy colloidal shells*, invited talk given at Sungkyunkwan University, S-Korea, April 3rd, 2015

62. *Active structuring of colloidal particles on drops by electric fields including electroformation of Janus and patchy colloidal shells*, invited talk given at Gwangju Institute of Science and Technology (GIST), Gwangju, S-Korea, April 1st 2015
63. *Active structuring of colloidal particles on drops by electric fields including electroformation of Janus and patchy colloidal shells*, invited talk given at Inha University Incheon S-Korea, March 30, 2015
64. *Active structuring of colloidal particles on drops by electric fields including electroformation of Janus and patchy colloidal shells*, invited talk given at Seoul Nat. Univ. (SNU), Seoul S-Korea, March 27, 2015
65. *Active structuring of colloidal particles on drops by electric fields including electroformation of Janus and patchy colloidal shells*, invited talk given at Korea Advanced Institute of Science and Technology (KAIST), Daejeon S-Korea, March 25, 2015
66. *Electrodriven colloidal assembly: Patchy and active systems*: Invited talk given jointly with Prof. Paul Dommersnes at "The Geilo School" 2015: Cooperative particles: Patchy colloids, active matter and nanofluids, March 16-26, 2015 at Bardøla Høyfjellshotel, Geilo, Norway
67. *Active structuring of colloidal particles on drops by electric fields including electroformation of Janus and patchy colloidal shells*, invited talk given at Niels Bohr Institute, Univ. Copenhagen, March 6, 2015
68. *Intercalation and Retention of CO₂ by a Clay controlled by Interlayer Cations*, talk given at the Norwegian Synchrotron- Neutron User Meeting 2015, Sola Strand Hotel, Stavanger 19-20 January 2015
69. *Some thoughts about an effective(?) and cheap(?) way of capturing CO₂*, invited talk Colóquios da Pós-Graduação em Química at Departamento de Química Fundamental – UFPE, Recife, Brazil, 10 de dezembro de 2014
70. *Intercalation and Retention of Carbon Dioxide in a Smectite Clay at Near-Ambient Conditions*, talk at 2014 MRS Fall Meeting & Exhibit, Symposium FF Materials as Tools for Sustainability, Boston, Massachusetts, USA, November 30 - December 5, 2014
71. *Self-organization and emergent phenomena in one example soft matter system: Clay*, invited talk at The Brijuni Conference: Self organizing matter and emergence, Brijuni, Croatia, 25-30 August 2014.
72. *Some thoughts about an effective(?) and cheap(?) way of capturing CO₂*, invited talk at Pontificia Universidade Catholica - PUC, Rio de Janeiro Brazil, August 8, 2014
73. *Active structuring of colloidal shells on drops by electric field*, talk given at Liquids 2014, 9th Liquid matter Conference, Lisbon, Portugal, July 21-25 2014
74. *Active structuring of colloidal particles on drops by electric fields including electroformation of Janus and patchy colloidal shells*, (i) Physics Faculty, Univ. Barcelona, Spain, June 20, 2014
75. *Active structuring of colloidal shells on drops by electric fields*, talk given at 4th International Colloids Conference: Surface Design and Engineering, Madrid, Spain, June 16, 2014
76. *Some thoughts about an effective(?) and cheap(?) way of capturing CO₂*, (i) Univ. Havana, Cuba, May 23, 2014
77. *Active structuring of colloidal particles on drops by electric fields including electroformation of Janus and patchy colloidal shells*, (i) IMRE, Univ. Havana, Cuba, May 20, 2014
78. *Structuring of colloidal shells on drops by electric fields*, Chemistry Institute, University of Sao Paulo - USP, Brazil, March 11, 2014
79. *Active Structuring of Colloidal Microparticles on Liquid Drops*, talk given at 2013 MRS Fall Meeting & Exhibit, December 1-6, 2013, Hynes Convention Center, Boston, MA, Symposium WW: Self-Organization and Nanoscale Pattern Formation
80. *Active structuring of colloidal shells on drops by electric fields*, in 9th Ibero-American Workshop on Complex Fluids and 2nd Italian-Brazilian Workshop on Liquid Crystals Maceio - PB, Brazil, 14 – 18 October 2013
81. *Active structuring of colloidal shells on drops by electric fields*, Physics Institute, University of Sao Paulo - USP, Brazil, 4 October 2013
82. *Active structuring of colloidal armor on liquid drops, extensions*, in Bi-annual meeting of the Norwegian Physical Society; Bergen, Norway, 7-10 August 2013
83. *Complex Physics in Clays*, invited plenary lecture given at 15th International Clay Conference (15ICC), Rio de Janeiro, Brazil, July 7-11 2013

84. *Recent observations regarding possible mechanisms responsible for CO₂- or drug molecules- vs. H₂O-intercalation in smectite clay interlayers*, invited talk given at 15th International Clay Conference (15ICC), Rio de Janeiro, Brazil, July 7-11, 2013
85. *Why clays? and Recent observations regarding possible mechanisms responsible for CO₂- or drug molecules- vs. H₂O- intercalation in smectite clay interlayers* (i) at 1st NTNU-PAN workshop on Soft and Complex Matter Physics, Warsaw, Institute of Physical Chemistry, Polish Academy of Sciences, 26 April 2013
86. *Intercalation of CO₂ or of drugs in smectite clays, and electric field induced self-organized clay structures on droplet surfaces* (i) Univ. of Campinas (UNICAMP), Biochem. Dep.t, Campinas, Brazil, Dec. 17 2012
87. *Intercalation of CO₂ or of drugs in smectite clays, and electric field induced self-organized clay structures on droplet surfaces* (i) Centro Nacional de Pesquisa em Energia e Materiais–CNPEM, Campinas, Brazil, Dec. 18 2012
88. *Droplets and emulsion flow* (i) Mini-Workshop on Complex Flows and Turbulence, 6 a 7 de dezembro de 2012, Departamento de Física, Universidade Federal de Pernambuco, Recife, PE, Brazil
89. *Intercalation and Retention of Carbon Dioxide in Synthetic Fluorohectorite Clay at near-ambient Conditions*, 2012 MRS Fall Meeting & Exhibit, November 25 - 30, 2012, Hynes Convention Center, Boston, MA, Symposium VV: Advanced Materials Exploration with Neutrons and Synchrotron X-Rays
90. *Intercalation and Retention of Carbon Dioxide in Synthetic Fluorohectorite Clay at near-ambient Conditions*, IV Intern. Workshop on Layered Materials. UNICAMP; Campinas, Brasil, Nov. 26-28 2012
91. *Intercalation and Retention of Carbon Dioxide in Synthetic Fluorohectorite Clay at Near-Ambient Conditions* (talk), MECC 2012, 6th Mid-European Clay Conference, Průhonice, Czech Republic, 4 - 9 September 2012
92. *Experimental Studies of Physical Phenomena in Clays: Structures, flows and fluid transport* (i), Departamento de Física, Universidade Federal de Sao Carlos, UFSCar – SP, Brazil, April 16, 2012
93. *Clay Materials Physics* (i), Short course at Physics Faculty and IMRE, Univ.Havana, Cuba, March 21-22, 2012
94. *Clays in Materials Physics* (i), International Conference: New materials in the Age of Convergence, Havana, Cuba, March 12-16, 2012
95. *Carbon dioxide intercalation in Na-fluorohectorite clay at near-ambient conditions*; American Physical Society March meeting, Focus Session H36: Environment: Green processes, Boston MA, USA, Feb. 27 – March 2, 2012
96. *Use of X-ray scattering methods for studies of physical phenomena in soft materials* (i), International Center for Condensed Matter Physics (ICCMP), Universidade of Brasilia (UnB), Brasilia-DF, Brazil Dec. 15, 2011
97. *Complex Physical Phenomena in Clays: Structures, flows and fluid transport* (i), I Encontro dos Usuários de Técnicas de Difração da CEM UFABC, Câmpus de Santo André, Sao Paulo, Brazil Dec. 7-8, 2011
98. *Physical Phenomena in Clays: Structures, flows and fluid transport* (i), PETROBRAS Research Center (CENPES), Oct. 17th, 2011
99. *Physical Phenomena in Clays: Structures, flows and fluid transport* (i), Departamento de Engenharia Civil, Pontificia Universidade Catolica do Rio de Janeiro (PUC-Rio), Oct. 11th, 2011
100. *CO₂ storage in porous media* (i), Research Council of Norway Conference, Soria Moria Conference Center, Oslo, Norway, October 5-6, 2011
101. *Magnetic resonance studies of clays: Examples of what one can learn* (i), International Workshop on Complex Phenomena in Superconductors and Magnetic Systems, Øystese, Norway Aug. 29th-Sep. 2nd 2011
102. *Physical Phenomena in Clays: Structures, flows and fluid transport* (i), Bio Complexity group, Niels Bohr Institute, Copenhagen, Denmark, June 27th, 2011
103. *Activities at Lab. for Soft and Complex Matter Studies at Dept. of Physics, NTNU* (i), 1st Nordic Workshop on Soft Matter Physics, (Nordforsk network), Århus, Denmark, June 28th – July 1st, 2011
104. *Physical Phenomena in Clays: Structures, flows and fluid transport* (i), Complex Fluids Group, Instituto de Física, Universidade de Sao Paulo (USP), Sao Paulo, May 30, 2011

105. *Complex Matters* (i) at Symposium for the 70th birthday of Arne T. Skjeltop, Norwegian Academy of Sciences, Oslo, Norway, May 20, 2011
106. *Flow of Clays* (i), Adv. Study Inst.: *Cooperative Phenomena in Flows*, Geilo, Norway April 4-14, 2011
107. *Physical Phenomena in Clays* (i), AMCS group - Physics Dept., Univ. of Oslo, Norway, April 1, 2011
108. *Experimental Studies of Physical Phenomena in Clays* (i) in Instability and Turbulence Group, DSM/IRAMIS/SPEC/ GIT, CEA-Saclay - Paris, France, March 23, 2011
109. *Physical Phenomena in Clays* (i). Department of Mechanical Engineering, Pontificia Universidade Catolica do Rio de Janeiro (PUC-Rio), Brazil, January 4, 2011
110. *Sorption and Migration of CO₂ in Porous Media* (i), CLIMIT Days 2010, Research Council of Norway Conference, Soria Moria Conference Center, Oslo, Norway, October 12-13, 2010
111. *Self-Organized Soft Nanostructures in Clays* (i), 150th orbit of Alexander von Humboldt, in Workshop on Complex Systems, Havana, Cuba, June 7-11, 2010
112. *Humidity Transport in a Material of Interconnected Meso- and Nanopores: X-ray Studies of a Model Clay*, Materials Research Society 2009 MRS Fall Meeting, Boston, USA, November 30 - December 4, 2009, Symposium JJ: Multiscale Dynamics in Confining Systems, Paper number JJ4.5, Dec. 1, 2009
113. *Complex Physical Phenomena in a Clay*, 14th International Clay Conference Castellaneta M., Italy, June 14-20, 2009, Session UM3: General topics, 850-920 Wednesday 17 June, 2009
114. *The Electro-Rheology of Suspensions of Synthetic Smectites in Oil*, 14th International Clay Conference Castellaneta M., Italy, June 14-20, 2009, Session CE4: Colloids & Rheology, 1500-1520 16 June 2009
115. *Synchrotron X-ray Scattering from Self-organized Soft Nanostructures in Clays*, 16:45–17:00, April 21, 2009, in Session SSS24 on Synchrotron radiation in soil and geosciences, European Geosciences Union-EGU, General Assembly 2009, Vienna, Austria 19-24 April 2009
116. *Experimental Studies of Selected Soft Self-organized Nanostructures* 5:00pm, December 4, 2008, in Complex Fluids session at Dynamics of Soft Matter (DSM) Workshop, Boston, MA, USA, Dec. 4-6, 2008
117. *Nano-Scale Hydration of a Model Clay: NMR Studies*, Materials Research Society 2008 MRS Fall Meeting Dec 1-5 2008, Boston, MA, USA, Symposium PP: Solid-State Chemistry of Inorganic Materials VII, Paper number PP7.10, December 3, 2008
118. *Examples of Self-organized Soft Nanostructures*(i), XXVI Encontro de Físicos do Norte e Nordeste (XXVI EFNNE), Mar Hotel, Recife, Brasil 5 a 7 de novembro de 2008
119. *Nano-scale hydration of a model clay: NMR studies*, VII Encontro da SBPMat (Sociedade Brasileira de Pesquisa em Materiais), Guarujá-SP, Brasil, 28 de setembro a 2° de outubro de 2008
120. *Water vapor transport in and hydration of, a model nano-clay: X-ray studies*, VII Encontro da SBPMat (Sociedade Brasileira de Pesq. em Materiais), Guarujá-SP, Brasil, 28 de setembro a 2° de outubro 2008
121. *Synchrotron X- ray Scattering from Selected Self- organized Soft Nanostructures*, 6th Int. Conf. on Synchrotron Radiation in Materials Science, (SRMS-6), Campinas, SP, Brazil, July 20-23, 2008
122. *Electrorheology of Clay Particles suspended in Oil*, IV Brazilian Conference on Rheology, Rio de Janeiro, Brazil July 2-4, 2008
123. *Self-assembly from clay nanoparticles*(i), Universidade Federal de Campina Grande (UFCG), Ciencia e Engenharia de Materiais, Campina Grande, Paraiba, Brazil December 18, 2007
124. *A Search for Possible Universal Anomalous Transport of Water in Meso-/Nano- Porous Materials*, Materials Research Society 2007 MRS Fall Meeting, Boston, MA, USA, Symposium V: Materials Science of Water Purification, Paper number V4.4, November 28, 2007
125. *Transitions in Selected Selfassembled Nanostructured Soft Materials* (i), Materials Research Society 2007 MRS Fall Meeting, Boston, MA, USA, Symposium D: Materials in Transition--Insights from Synchrotron and Neutron Sources, Paper number D5.1, November 27, 2007
126. *Spontaneous and Guided Selfassembly of Clay Nanoparticles*, Materials Research Society 2007 MRS Fall Meeting, Boston, MA, USA, Symposium HH: Nanophase and Nanocomposite Materials V, Paper number HH2.6, November 26, 2007
127. *Spontaneous and Guided Selfassembly of Nanoparticles*, VI Encontro da SBPMat (Sociedade Brasileira de Pesquisa em Materiais), Natal-RN, Brasil, 28 de outubro a 1° de novembro de 2007
128. *From nanoparticles to macroscopic complex physical phenomena*, Annual meeting of the Norwegian Physical Society, Tromsø, Norway 8-10 August, 2007

129. *Self-assembly from clay nano-platelets*, Euroclay2007 Aveiro, Portugal, July 22-27, 2007
130. *Self-assembly of nano-particles(i)*, Universidade Federal de Pernambuco (UFPE), Departamento de Física, Recife, Brazil, July 13, 2007
131. *Self-assembly of nanoparticles: From simple ingredients to complex phenomena*, Research Council of Norway Nanomat Conference, Bergen, Norway, 5-7 June, 2007
132. *Electric Polarization and Chain Formation of Nano-Layered Particles*, Norwegian Synchrotron User meeting, Bergen, Norway, 4-5 juni 2007
133. *Transport of fluids in nanoporous media*, Annual meeting of the Condensed Matter and Atomic Physics Division of the Norwegian Physical Society, Bergen, Norway, 5 June, 2007
134. *From Simple Ingredients to Complex Phenomena: Self-assembly of Nanoparticles(i)*, Universidade de Brasilia, UnB (University of Brasilia) Instituto de Fisika (Institute of Physics) Brasilia, Brazil, April 3, 2007
135. *From Simple Ingredients to Complex Phenomena: Self-assembly of Nanoparticles(i)*, Brazilian National Institute for Space Research– INPE - Associate Laboratory for Computing and Applied Mathematics – LAC, São José dos Campos — SP, Brazil, March 23, 2007
136. *From Simple Ingredients to Complex Phenomena: Self-assembly of Nanoparticles(i)*, Workshop on "Dynamics of Complex Systems", Natal, Brazil, March 15, 2007
137. *Synchrotron X-ray scattering studies of self-assembly of nano-layered particles(i)*, Miniworkshop on "X-ray study of nanostructures", Gwangju Inst. of Technology, GIST, Gwangju, Korea, February 26, 2007
138. *Electric Polarization and Chain Formation of Nano-Layered Particles(i)*, Fourth Scandinavian Workshop on Scattering from Soft Matter, MAX-lab, Lund, Sweden, 1 February 2007
139. *How do Complex Phenomena Emerge from Simple Ingredients? Complex Matter Science by Example: Spontaneous and Guided Self-assembly of Nanoparticles(i)*, Norwegian University of Science and Technology, Department of Physics Colloquium, January 19, 2007
140. *Complex Physical Phenomena in Nanolayered Silicates (Clays)(i)*, Workshop on Neutron and X-ray Scattering for the Structures and Dynamics of Nanoscale Materials, KAIST, Daejeon, Korea, December 7-8, 2006
141. *Complex Physical Phenomena in Clays: Spontaneous and Guided Selfassembly of Clay Nanolayered Particles studied by Synchrotrons and Microscopes(i)*, Massachusetts Institute of Technology (MIT), Department of Earth, Atmospheric and Planetary Sciences, Dan Rothman Group, November 30 2006
142. *Nanolayered Silicates (Clays) as Example of Soft and Complex Matter: From Nano to Macro using Synchrotrons and Microscopes(i)*, Veeco Scandinavian SPM Conference and Users Meeting 2006, Chalmers University, Goteborg, Sweden, November 15 2006
143. *Spontaneous and guided self-assembly of clay nanoplatelets*, Universidade Federal de Pernambuco (UFPE), Dept. of Physics, Mario Engelsberg Group, Recife, Brazil, July 27 2006
144. *Spontaneous and guided self-assembly of clay nanoplatelets (i)*, Postech, Department of Physics, Pohang, South Korea, July 5 2006
145. *Spontaneous and guided self-assembly of clay nanoplatelets(i)*, KAIST, Korea Advanced Institute of Science and Technology, Sung-Min Choi and Mahn Won Kim groups, South Korea, July 4 2006
146. *Phase separation and orientational ordering in aqueous suspensions of fluoro-hectorite clay*, Groupe francais des argiles GFA - Clay Min. Society CMS Clay Conference, Ile d'Oleron, (France) June 2006
147. *Clays as Example of Soft and Complex Matter: From Nano to Macro using Synchrotrons and Microscopes(i)*, University of Utrecht, Netherlands, Department of Geochemistry, February 2006
148. *Intercalation-enhanced electric polarization and chain formation of nano-layered clay platelets in oil*, 13th International Conference on Clays, Tokyo (Japan), August 2005
149. *Clays as Example of Soft and Complex Matter: From Nano to Macro using Synchrotrons and Microscopes(i)*, Universidade Federal de Pernambuco (UFPE), Departments of Physics and Chemistry, Recife, Brazil, July 2005
150. *Clays as Example of Soft and Complex Matter: From Nano to Macro using Synchrotrons and Microscopes(i)*, Universidade Joao Pessoa, Departement of Physics, Paraiba, Brazil, July 2005
151. *From nanotechnology to applied geology, are there any links?*, Research Council of Norway, NANOMAT-Birkeland Conference, 02-03/06 2005 in Trondheim, Norway

152. *Nanolayered Silicates (Clays) as Examples of Soft and Complex Matter: From Nano to Macro using Synchrotrons and Microscopes(i)*, XXVIII Encontro Nacional de Física da Matéria Condensada 10 a 14 de maio de 2005 Santos, SP, Brazil, May 2005
153. *Complex Interconnected Materials: Networks and Processes(i)*, NATO ASI on Dynamics of Complex Interconnected Biosensor Systems: Networks and Bioprocesses, Geilo, Norway, April 2005
154. *Clays as Example of Soft and Complex Matter: From Nano to Macro using Synchrotrons and Microscopes(i)*, University of Hawaii, Department of Physics, Klaus Sattler Group, Honolulu, USA, October 2004
155. *Clays as Example of Soft and Complex Matter: From Nano to Macro using Synchrotrons and Microscopes(i)*, Gwangju Institute of Technology, GIST, Department of Materials Science, South Korea, October 2004
156. *Physics, Physicists and Nanotechnology(i)*, Invited talk on behalf of Norwegian Physical Society, Research Council of Norway - NANOMAT conference, Soria-Moria, Oslo, Norway, 3-4 Juni 2004
157. *Clays as Example of Soft and Complex Matter: From Nano to Macro using Synchrotrons and Microscopes*, ESPCI, Paris, France March 11th 2004
158. *Clays as Example of Soft and Complex Matter: From Nano to Macro(i)*, Institut Non-Lineaire de Nice, France, Feb 27th 2004
159. *Clays as Example of Soft and Complex Matter: From Nano to Macro using Synchrotrons and Microscopes(i)*, LNLS, Campinas, Brazil, March 2004
160. *Clays as Example of Soft and Complex Matter: From Nano to Macro using Synchrotrons and Microscopes* (invited), University of Brasilia, Department of Physics, Brazil, October 2003
161. *Soft and Complex Matter: From Nano to Macro* (invited), Annual meeting of the Norwegian Physical Society, Sundvollen, Norway 9-12 August 2003
162. *Clays: Nano physics and Macro Petroleum Physics* (invited), Workshop on "Petroleum Related Science and Technology", Brasilia, Brazil, July 2002
163. *Self-affinity and crossover of a clay deposit*, April 22nd 2002, invited talk at 27th General Assembly of the European Geophysical Society, Nice France 22-26 April 2002

Other conference contributions past 10 years (presenter is underlined):

1. *Cellulose-Based Membranes for Effective Capture of Oil Microdroplets in Water*, Ana C. Trindade, Ana P. Almeida, João Oliveira, João Canejo, Susete Fernandes, Jon O. Fossum and Maria Helena Godinho, talk at SESSION SB11: Complex Fluids/Emulsions, MRS Fall Meeting 2018, Boston, USA, Dec 2-6, 2019
2. *Binary Liquid Crystals Based on Clay and Graphene Oxide*, Barbara Pacakova, Romulo Tenorio, Marian Matejdes, Yves Meheust, Paulo H. Michels Brito Josef Breu and Jon O. Fossum, talk presented at SESSION SB11: Colloids, MRS Fall Meeting 2018, Boston, USA, Dec 2-6, 2019
3. *Tuning Synthetic Active Matter—From Living Clusters to Liquid Swarms*, Paul Dommersnes and Jon O. Fossum, talk at SESSION SB11: Active Matter, MRS Fall Meeting 2018, Boston, USA, Dec 2-6, 2019
4. *Wrapping of Drops and Nanoparticles in Clay Nanosheets*, Osvaldo Trigueiro Neto, Ville Liljeström, Koiti Araki, Lina Mayr, Josef Breu, Jon O. Fossum and Paul Dommersnes, poster presented at SESSION SB11: Complex Fluids/Emulsion, MRS Fall Meeting 2018, Boston, USA, Dec 2-6, 2019
5. *Nanofluidics in Smectite Clays*, Leide P. Cavalcanti, Heloisa N. Bordallo, Kenneth Knudsen and Jon O. Fossum, poster presented at SESSION FF02: 2D Nanomaterials-Based Nanofluidics, MRS Fall Meeting 2018, Boston, USA, Dec 2-6, 2019
6. *Collective Motion of Quincke Rotating Beads*, Etien Martinez Roman, Tommy Fjelde Kristiansen, Barbara Pacakova, Jaako Timonen, Paul Dommersnes and Jon O. Fossum, poster presented in session MS01 Extreme Mechanics, MRS Fall Meeting 2018, Boston, USA, Dec 2-6, 2019
7. *Clay Hybrid Nano-Layer Assembly, Structure and Mechanics at the Air-Water Interface*, Paulo H. Michels Brito, Antônio Gasperini, Lina Mayr, Ximena Puentes-Martinez Romulo Tenorio, Leide P. Cavalcanti, Koiti Araki, Josef Breu, Kenneth Knudsen and Jon O. Fossum, poster presented at SESSION MS03: Biocomposites, MRS Fall Meeting 2018, Boston, USA, Dec 2-6, 2019

8. *Cellulose-Based Materials for Magnetic Paper*, Ana C. Trindade, João Canejo, Sergio H. Toma, Susete Fernandes, Maria Helena Godinho, Koiti Araki and Jon O. Fossum, poster presented at SESSION SB01: Soft Robotics, MRS Fall Meeting 2018, Boston, USA, Dec 2-6, 2019
9. *Carbon Dioxide and Methane Selectivity of a Smectite Clay with Different Intercalated Cations*, Kristoffer W. Hunvik, Leide P. Cavalcanti, Martin Riess, Patrick Loch, Konstanse K. Seljelid, Vegard Josvanger, Roosevelt Droppa, Dirk Wallacher, Barbara Pacakova, Paulo H. Michels Brito, Kenneth Knudsen, Josef Breu and Jon O. Fossum, poster presented at SESSION EN04: Novel Membrane Materials, Metrologies and Applications, MRS Fall Meeting 2018, Boston, USA, Dec 2-6, 2019
10. *Exfoliation of Clay Nanosheets*, Osvaldo Trigueiro Neto, V. V. Liljeström, K. K. Seljelid, L. Mayr, J. Breu, P. G. Dommersnes, J. O. Fossum, invited talk given at 6th Annual International Workshop on Soft & Complex Matter, Norwegian Academy of Science and Letters, Oslo, Norway, October 6-7, 2019
11. *Carbon-dioxide capture and retention by synthetic Fluorohectorite (Fh) clay*, Kristoffer W. Bø Hunvik, Leide Cavalcanti, Martin Riess, Patrick Loch, Konstanse K. Seljelid, Vegard Josvanger, Dirk Wallacher, Roosevelt D Droppa, Barbara Pacakova, Paulo Brito, Kenneth D Knudsen, Josef Breu, Jon Otto Fossum, invited talk given at 6th Annual International Workshop on Soft & Complex Matter, Norwegian Academy of Science and Letters, Oslo, Norway, October 6-7, 2019
12. *Microcapsule controlled gelation in channels and pores such as those in petroleum reservoirs*, Konstanse K. Seljelid, O.T. Neto, V.V. Liljeström, I. Fjelde, M. Carvalho, J.O. Fossum, invited talk given at 6th Annual International Workshop on Soft & Complex Matter, Norwegian Academy of Science and Letters, Oslo, Norway, October 6-7, 2019
13. *Water vapor diffusive transport in a smectite clay: Cationic control of normal versus anomalous diffusion*, Leander Michels, Yves Méheust, Mario A. S. Altoé, Éverton C. dos Santos, Henrik Hemmen, Roosevelt Droppa Jr., Geraldo J. da Silva, Jon O. Fossum, invited talk given at 6th Annual International Workshop on Soft & Complex Matter, Norwegian Academy of Science and Letters, Oslo, Norway, October 6-7, 2019
14. *Clay hybrid nano-layer assembly, structure and mechanics at the air-water interface*, Paulo H. Michels-Brito, Antonio M. Gasperini, Lina Mayr, Ximena Puentes Martinez, Rômulo P. Tenório, Leide P. Cavalcanti, Koiti Araki, Josef Breu, Kenneth D. Knudsen, Jon Otto Fossum, invited talk given at 6th Annual International Workshop on Soft & Complex Matter, Norwegian Academy of Science and Letters, Oslo, Norway, October 6-7, 2019
15. *Bacteria swimming in complex fluids*, Hector Urrea, Gaspard Junot, Paul Dommersnes, Jochen Arlt, Vincent Martinez, Jon Otto Fossum, Eric Clémen, invited talk given at 6th Annual International Workshop on Soft & Complex Matter, Norwegian Academy of Science and Letters, Oslo, Norway, October 6-7, 2019
16. *Active turbulence/vortex array transition in Quincke rotating beads*, Etien Martinez, Tommy Kristiansen, Barbara Pacakova, Jaako Timonen, Paul Dommersnes, Jon Otto Fossum, invited talk given at 6th Annual International Workshop on Soft & Complex Matter, Norwegian Academy of Science and Letters, Oslo, Norway, Oct. 6-7, 2019
17. *Cellulose-based Membranes for Effective Capture of Oil Microdroplets in Water*, Ana C. Trindade, Ana P.C. Almeida, João Oliveira, João P. Canejo, Susete N. Fernandes, Jon-Otto Fossum, M. Helena Godinho, invited talk given at 6th Annual International Workshop on Soft & Complex Matter, Norwegian Academy of Science and Letters, Oslo, Norway, October 6-7, 2019
18. *Tuning Photonic Properties of Cellulose-Clay Nano Structures*, Ana C. Trindade, Miguel Carreto, Susete Fernandes, Matthias Daab, Josef Breu, Maria Helena Godinho J. O. Fossum, invited talk given at 6th Annual International Workshop on Soft & Complex Matter, Norwegian Academy of Science and Letters, Oslo, Norway, October 6-7, 2019
19. *Polar Flocking of Active Clusters*, Paul Dommersnes & Jon Otto Fossum, invited talk given at 6th Annual International Workshop on Soft & Complex Matter, Norwegian Academy of Science and Letters, Oslo, Norway, October 6-7, 2019
20. *Turbulent vortex dynamic with Quincke rotating beads*, Etien Martinez, Paul Dommernes, Barbara Pacakova, Tommy Kristiansen, Jaakko Akkola, Jon Otto Fossum, Oral and poster presentation at Gordon Research Conference and Seminar. Soft Condensed Matter Physics. New London, August

2019. United States Gordon Research Conference and Seminar. Soft Condensed Matter Physics. New London, United States, August 2019
21. *Water mobility and its influence in the capture and retention of CO₂ in the interlayer space of Fluorohectorite clay minerals*, Simon R. Larsen, Laurie P. Aldridge, Leander Michels, Will P. Gates, Éverton C. dos Santos, Leide P. Cavalcanti, Jon Otto Fossum, Heloisa N. Bordallo, keynote lecture presented at Euroclay2019, Paris France 1-5 July 2019
 22. *Water vapor diffusive transport in a smectite clay: Cationic control of normal versus anomalous diffusion*, Leander Michels, Yves Méheust, Mario A. S. Altoé, Éverton C. dos Santos, Henrik Hemmen, Roosevelt Droppa Jr., Jon O. Fossum, Geraldo J. da Silva, lecture presented at Euroclay2019, Paris France 1-5 July 2019
 23. *The Role of Interlayer Cations for CO₂ Capture in a Smectite Clay*, Kristoffer W. Bø Hunvik, Leide Cavalcanti, Matthias Daab, Konstanse K. Seljelid, Vegard Josvanger, Roosevelt D. Droppa, Barbara Pacáková, Paulo H. Michels-Brito, Kenneth D. Knudsen, Josef Breu, Jon Otto Fossum, poster presented at Euroclay2019, Paris France 1-5 July 2019
 24. *Fluorohectorite, a promising material for drug delivery*, E.C. dos Santos, W.P. Gates, L. Michels, J.O. Fossum, H.N. Bordallo, poster presented at Euroclay2019, Paris France 1-5 July 2019
 25. *Clay nanoparticle organization at the air-liquid interface*, Paulo H. Michels-Brito, Antonio M. Gasperini, Ximena Puentes-Martinez, Leide P. Cavalcanti, Josef Breu, Koiti Araki, Kenneth D. Knudsen, Jon Otto Fossum, poster presented at Euroclay2019, Paris France 1-5 July 2019
 26. *Iridescent Cellulose-Clay Nano Structures*, Ana Catarina Trindade, Susete Fernandes, Ville Liljeström, Matthias Daab, Josef Breu, Maria Helena Godinho, Jon Otto Fossum, poster presented at Euroclay2019, Paris France 1-5 July 2019
 27. *In-situ intercalation of pharmaceuticals in smectite clays*, Leander Michels, Everton dos Santos, Barbara Pacakova, Kristoffer Hunvik, Leide P. Cavalcanti, Koiti Araki, Heloisa N. Bordallo, Kenneth D. Knudsen, Jon Otto Fossum, poster presented at Euroclay2019, Paris France 1-5 July 2019
 28. *Iridescent Cellulose-Clay Nano Structures*, A.C. Trindade; J. Breu; M.H. Godinho; J.-O. Fossum, poster presented at Materiais 2019, Lisboa, Portugal, April 16th, 2019.
 29. *Patterned non-woven cellulosic membranes for recovery of oil microdroplets*, A. C. Trindade, A. P. C. Almeida, J. Oliveira, J. P. Canejo, S. N. Fernandes, J.-O. Fossum, M. H. Godinho, poster presented at EUPOC2019 Electrospinning and Related Techniques: From Design to Production of Advanced Polymer Materials and Devices, Como, Italy, May 13th and 14th 2019.
 30. *Nano-wrapping of nanoparticles*, O. Trigueiro Neto, V. V. Liljeström, K. Araki, P. G. Dommersnes, J. O. Fossum, poster presented at The Geilo School 2019: Evolving Soft Matter: Shape, Dynamics and Functionality, Geilo, Norway, Mar 11-21, 2019
 31. *Collective motion of Quincke rotating beads*, Etien Martinez, Paul Dommernes, Barbara Pacakova, Tommy Kristiansen, Jaakko Akkola, Jon Otto Fossum, poster presented at The Geilo School 2019: Evolving Soft Matter: Shape, Dynamics and Functionality. Geilo, March 2019. Norway.
 32. *Electrostatic self-Assembly of faceted, anisotropic, and helical nanoparticle superstructures*, V. Liljeström, A. Ora, J. Mikkilä, J. O. Fossum, M. A. Kostianen, poster presented at The Geilo School 2019: Evolving Soft Matter: Shape, Dynamics and Functionality, Geilo, Norway, Mar 11-21, 2019
 33. *Clay nanoparticle organization at the air-liquid interface*, P. H. Michels-Brito, A. M. Gasperini, X. Puentes-Martinez, L. P. Cavalcanti, J. Breu, K. Araki, K. D. Knudsen, J. O. Fossum, poster presented at The Geilo School 2019: Evolving Soft Matter: Shape, Dynamics and Functionality, Geilo, Norway, Mar 11-21, 2019
 34. *Determining the Role of the Ionic Radii of Interlayer Cations for CO₂ Capture in Synthetic Smectite Clay*, Kristoffer W. Hunvik, Leide Cavalcanti, Matthias Daab, Barbara Pacakova, Paulo H. Brito, Kenneth Knudsen, Josef Breu and Jon O. Fossum, poster presented at The Geilo School 2019: Evolving Soft Matter: Shape, Dynamics and Functionality, Geilo, Norway, Mar 11-21, 2019
 35. *Electrostatic self-assembly protein cages, viruses, and synthetic nanoparticles into periodic superstructures with distinct shape*, V. Liljeström, A. Ora, J. Mikkilä, J. O. Fossum, M. A. Kostianen, talk presented at Colloidal Science and Metamaterials 2019, Paris, France, Feb 25-27, 2019

36. *Determining the Role of the Ionic Radii of Interlayer Cations for CO₂ Capture in Synthetic Smectite Clay*, Kristoffer W. Hunvik, Leide Cavalcanti, Matthias Daab, Barbara Pacakova, Paulo H. Brito, Kenneth Knudsen, Josef Breu and Jon O. Fossum, poster presented at MRS Fall Meeting 2018, Boston, USA, Nov 25-30, 2018
37. *Assembly and fixation of microparticles confined to interfaces and droplets*, V. Liljeström, A. T. Krüger, O. T. Neto, P. Dommersnes, J. O. Fossum, talk presented at the 5th Annual International Workshop on Soft & Complex Matter, Norwegian Academy of Science and Letters, Oslo, Norway, Oct 21-22, 2018
38. *Nanofluidics in smectite clays*, Leide P. Cavalcanti, Heloisa N. Bordallo, Kenneth D. Knudsen, Jon Otto Fossum, talk presented at the 5th Annual International Workshop on Soft & Complex Matter, Norwegian Academy of Science and Letters, Oslo, Norway, Oct 21-22, 2018
39. *Surface Modification of Clay for Self-Assembled Materials*, P. H. Michels-Brito, B. Pacáková, V. Liljeström, L. Cavalcanti M. Stoter, K. D. Knudsen, J. Breu, J. O. Fossum, talk presented at the 5th Annual International Workshop on Soft & Complex Matter, Norwegian Academy of Science and Letters, Oslo, Norway, Oct 21-22, 2018
40. *Determining the Role of the Ionic Radii of Interlayer Cations for CO₂ Capture in Synthetic Smectite Clay*, Kristoffer W. Hunvik, Leide Cavalcanti, Matthias Daab, Barbara Pacakova, Paulo H. Brito, Kenneth Knudsen, Josef Breu and Jon O. Fossum talk presented at the 5th Annual International Workshop on Soft & Complex Matter, Norwegian Academy of Science and Letters, Oslo, Norway, Oct 21-22, 2018
41. *Collective motion of Quincke rotating beads*, Etien Martinez, Paul Dommernes, Barbara Pacakova, Tommy Kristiansen, Jaakko Akkola, Jon Otto Fossum, Summer School: Active Matter and Non-Equilibrium Statistical Physics. Ecole de Physique des Houches, Les Houches, France, September 2018.
42. *Turbulent-like behavior in the collective motion of electro-rotating beads*, Etien Martinez, Paul Dommernes, Barbara Pacakova, Tommy Kristiansen, Jaakko Akkola, Jon Otto Fossum, oral presentation at 5th Annual International Workshop on Soft and Complex Matter. Oslo, Norway October 2018
43. *Nanolayered Clay—2D Natural Material*, B. Pacakova, P. Michels Brito, S. Godrich, K.W.B. Hunvik, J. Breu, J. O. Fossum poster presented at MAX IV Summer School, Lund, Sweden, May 21-29, 2018
44. *Nanolayered clay - a 2D natural material*, B. Pacakova, S. Godrich, K. Hunvik, J. Breu, J. O. Fossum, poster presented at MRS Fall Meeting, Boston, USA 26. November - 1. December 2017.
45. *Clay - new important member of 2D materials family?*, B. Pacakova, J.O. Fossum, T. Verhagen, J. Vejpravova, M. Kalbac, talk presented at 4th Annual International Workshop on Soft and Complex Matter, Oslo 29-30 Oct. 2017
46. *Why are high charge density clays effective for CO₂ capture?*, L. P. Cavalcanti, G. Kalantzopoulos, P. Sobas, H. N. Bordallo, G. Helgesen, K. D. Knudsen, J. O. Fossum, Norsk Fysisk Selskap - Fysikermøtet 2017, Tromsø Aug 7-9 2017
47. *Absorption and desorption of CO₂ in vermiculite and fluorohectorite clays as studied by photoemission and temperature programmed desorption*, K.W.B. Hunvik, X. Yu, S. Raaen and J.O. Fossum, poster presented at 16th International Clay Conference (16ICC): Clays from the Oceans to Space, in Session NT14: CO₂ or Methane Capture by Clays, Granada Spain July 21st 2017
48. *Vapor transport in a porous smectite clay: from normal to anomalous diffusion*, Leander Michels, Yves Méheust, Mario A. S. Altoé, Henrik Hemmen, Roosevelt Droppa Jr., Giovanni Grassi, Jon O. Fossum and Geraldo J. da Silva, poster presented at 16th International Clay Conference (16ICC): Clays from the Oceans to Space, in Session ES04: Clay Barriers Performance in the Long-Term Isolation of Waste: Thermal; Hydro-Mechanical and Chemical Interactions, Granada Spain July 21st 2017
49. *Clay model for drug adsorption: study of the interaction of ciprofloxacin with Li-fluorohectorite*, Anabel Lam, Aramis Rivera, Claudio M. Zicovich-Wilson, Luis Javier Alvarez and Jon Otto Fossum, poster presented at 16th International Clay Conference (16ICC): Clays from the Oceans to Space, in Session OM05: Computational Modeling of Clay Minerals and Related Materials, Granada Spain July 18th 2017
50. *High charge density smectite clays for CO₂ capture*, Leide P. Cavalcanti, Georgios Kalantzopoulos, Pawel Sobas, Heloisa N. Bordallo, Geir Helgesen, Kenneth D Knudsen and Jon Otto Fossum, talk presented at 16th International Clay Conference (16ICC): Clays from the Oceans to Space, in Session ES02: Environmental Applications of Clay Minerals, Granada Spain July 17th 2017

51. *Li-fluorohectorite as drug delivery system: incorporation of sulfamethoxazole and trimethoprim*, Dayaris Hernández, Lismet Lazo, Leslie Váldez, Louis Charles De Ménorval, Zbigniew Rozinek, Ernesto Altshuler, Jon Otto Fossum and Aramis Rivera, talk presented at 16th International Clay Conference (16ICC): Clays from the Oceans to Space, in Session OM02: Drug Delivery Systems Based on Layered Materials, Granada Spain July 17th 2017
52. *Mechanics and flow of Pickering films*, J.O. Fossum, A. Mikkelsen, P. Dommersnes, Z. Rozynek, poster abstract at ISMC2016, 4th International Soft Matter Conference, Grenoble, France, September 12-16, 2016
53. *Intercalation of Ciprofloxacin into Lithium-Fluorohectorite at different pHs*, Éverton C. Santos, Jon Otto Fossum, Heloisa N. Bordallo, talk given at Danscatt Annual meeting, Copenhagen, Denmark, May 26th - 27th, 2016
54. *Physical capture and release of drug molecules by clays: X-ray and neutron studies*, Éverton C. Santos, Jon Otto Fossum, Heloisa N. Bordallo, talk (Startup Seminar) given at Copenhagen University, Copenhagen, Denmark, April 1st, 2016
55. *Intercalation of Ciprofloxacin into Lithium-Fluorohectorite at different pHs*, Éverton C. Santos, Jon Otto Fossum, Heloisa N. Bordallo, poster presented at 4th International Workshop on Complex Physical Phenomena in Materials, Porto de Galinhas, Brazil, February 22th -25th, 2016
56. *Intercalation and Retention of Carbon Dioxide in a Smectite Clay promoted by Interlayer Cations*, J. O. Fossum, L. Michels, Z. Rozynek, H. Hemmen, K. Rustenberg, P. A. Sobas, G. N. Kalantzopoulos, K. D. Knudsen, M. Janek, T. S. Plivelic, G. J. da Silva, poster presented at Clay Colloids in Aqueous Systems - BELBAR conference, Berlin, Germany, 3-4 February 2016
57. *Stabilization of emulsions by heterocoagulation of clay minerals using a microfluidic device*, Gholamipour-shirazi, A., Carvalho, M. & Fossum, J. O. in 23rd ABCM Int. Congr. Mech. Eng., Rio de Janeiro, Dec. 2015
58. *Intercalation of Ciprofloxacin into Lithium-Fluorohectorite at different pHs*, Éverton C. Santos, Leander Michels, Jon Otto Fossum, Heloisa N. Bordallo, poster presented 5th Niels Bohr Institute Academy, Copenhagen, Denmark, November 9th - 13th, 2015
59. *Mechanics and rheology of Pickering films*, Alexander Mikkelsen, Z. Rozynek, P. Dommersnes, J.O. Fossum, poster presented at The International Conference "Material Science in the Age of Sustainability", Havana, Cuba, June 29th - July 1st 2015
60. *Intercalation of Ciprofloxacin into Lithium-Fluorohectorite at different pHs.*, Éverton C. Santos, Leander Michels, Jon Otto Fossum, Heloisa N. Bordallo, poster presented at The International Conference "Material Science in the Age of Sustainability", Havana, Cuba, June 29th - July 1st 2015
61. *Li-Fluorohectorite as drug support: incorporation of tramadol and trimethoprim*, D. Hernández, L. Valdés, L. C. de Ménorval, J. O. Fossum, A. Rivera, poster presented at The International Conference "Material Science in the Age of Sustainability", Havana, Cuba, June 29th - July 1st 2015
62. *Ciprofloxacin intercalation into a synthetic clay (NaFh)*, L. Valdés, J. Jiménez, I. Pérez, E. L. Hansen, Z. Rozynek, L. C. de Ménorval, E. Altshuler, J. O. Fossum, A. Rivera, poster presented at The International Conference "Material Science in the Age of Sustainability", Havana, Cuba, June 29th - July 1st 2015
63. *Vancomycin incorporation into a smectites: preliminary studies*, S. Alfonso, L. Valdés, L. C. de Ménorval, E. Estevez, J. O. Fossum, A. Rivera, poster presented at The International Conference "Material Science in the Age of Sustainability", Havana, Cuba, June 29th - July 1st 2015
64. *Mechanics and rheology of Pickering films*, Alexander Mikkelsen, Z. Rozynek, P. Dommersnes, J.O. Fossum, invited talk given at MarchCOMeeting'15-JuneEdition, Havana, Cuba, June 24th -26th 2015
65. *Hydration, cation-exchange process and storage ability of clay particles*, Everton C. Santos, L. Michels, M.A.S. Altoe, J.O. Fossum, H. Bordallo, invited talk given at MarchCOMeeting'15-JuneEdition, Havana, Cuba, June 24th -26th 2015
66. *Ciproflaxacin intercalation into a synthetic clay (NaFh)*, L. Valdes, J. Jimenez, L. Perez, E.L. Hansen, Z. Rozynek, L.C. de Menorval, E. Altshuler, J.O. Fossum, A. Rivera, invited talk given at MarchCOMeeting'15-JuneEdition, Havana, Cuba, June 24th -26th 2015
67. *Mechanics and rheology of Pickering films*, Alexander Mikkelsen, Z. Rozynek, P. Dommersnes, J.O. Fossum, poster presented at MarchCOMeeting'15-JuneEdition, Havana, Cuba, June 24th -26th 2015

68. *Intercalation of Ciprofloxacin into Lithium-Fluorohectorite at different pHs.*, Éverton C. Santos, Leander Michels, Jon Otto Fossum, Heloisa N. Bordallo, poster presented at MarchCOMeeting'15-JuneEdition, Havana, Cuba, June 24th -26th 2015
69. *Interaction between a synthetic clay (LiFh) and NSAIDs drugs*, L. Valdes, D. Hernandez, L-C. de Menorval, J.O. Fossum, A. Rivera, poster presented at MarchCOMeeting'15-JuneEdition, Havana, Cuba, June 24th -26th 2015
70. *Mechanics and rheology of Pickering films*, Alexander Mikkelsen, Z. Rozynek, P. Dommersnes, J.O. Fossum, invited talk given at *Nordic Physics Days*, NTNU, Trondheim Norway, June 9-12, 2015
71. *Intercalation and Retention of Carbon Dioxide in a Smectite Clay promoted by Interlayer Cations*, Leander Michels, Jon Otto Fossum, Zbigniew Rozynek, Henrik Hemmen, Karin Rustenberg, Pawel A. Sobas, Georgios N. Kalantzopoulos, Geir Helgesen, Kenneth D. Knudsen, Marian Janek, Tomás S. Plivelic, Geraldo José da Silva, invited talk given at *Nordic Physics Days*, NTNU, Trondheim Norway, June 9-12, 2015
72. *Capture and release of drug molecules by clays*, Éverton C. Santos, Leander Michels, Jon Otto Fossum, Heloisa N. Bordallo, poster at *Nordic Physics Days*, NTNU, Trondheim Norway, June 9-12, 2015
73. *Hydration states of Ni-Fluorohectorite smectite clay studied by X-ray diffraction*, M. A. S. Altoé, L. Michels, G. Grassi, L. Ribeiro, E. C. dos Santos, J. O. Fossum, R. Droppa Jr, G. J. da Silva, poster presented at at "The Geilo School" 2015: Cooperative particles: Patchy colloids, active matter and nanofluids, March 16-26, 2015 at Bardøla Høyfjellshotel, Geilo, Norway
74. *A Microfluidic Approach to Produce Monodisperse O/W Emulsions Stabilized by Laponite Nanoparticles*, Azarmidokht Gholamipour-Shirazi, Marcio Carvalho, Jon Otto Fossum, poster presented at at "The Geilo School" 2015: Cooperative particles: Patchy colloids, active matter and nanofluids, March 16-26, 2015 at Bardøla Høyfjellshotel, Geilo, Norway
75. *Intercalation and Retention of Carbon Dioxide in a Smectite Clay promoted by Interlayer Cations*, L. Michels, J.O. Fossum, Z. Rozynek, H. Hemmen, K. Rustenberg, P.A. Sobas, G.N. Kalantzopoulos, K.D. Knudsen, M. Janek, T.S. Plivelic, G.J. da Silva, poster presented at at "The Geilo School" 2015: Cooperative particles: Patchy colloids, active matter and nanofluids, March 16-26, 2015 at Bardøla Høyfjellshotel, Geilo, Norway
76. *Mechanics and rheology of Pickering films*, Alexander Mikkelsen, Zbigniew Rozynek, Paul Dommersnes and Jon Otto Fossum, poster presented at at "The Geilo School" 2015: Cooperative particles: Patchy colloids, active matter and nanofluids, March 16-26, 2015 at Bardøla Høyfjellshotel, Geilo, Norway
77. *Capture and release of drug molecules by clays*, Éverton C. Santos, Jon Otto Fossum, Heloisa N. Bordallo, poster presented at at "The Geilo School" 2015: Cooperative particles: Patchy colloids, active matter and nanofluids, March 16-26, 2015 at Bardøla Høyfjellshotel, Geilo, Norway
78. *Incorporation of Ciprofloxacin into NaFh clays: slow-release systems*, L. Valdés, J. Jiménez, I. Pérez, E. L. Hansen, Z. Rozynek, L. C. de Ménorval, E. Altshuler, J. O. Fossum, A. Rivera, poster presented at at "The Geilo School" 2015: Cooperative particles: Patchy colloids, active matter and nanofluids, March 16-26, 2015 at Bardøla Høyfjellshotel, Geilo, Norway
79. *Quincke Rotating Drops*, Alexander Mikkelsen, Zbigniew Rozynek, Paul Dommersnes, Jon Otto Fossum, poster at 2014 MRS Fall Meeting & Exhibit, Symposium JJ 3D Mesoscale Architectures–Synthesis, Assembly, Properties and Applications, Boston, Massachusetts, USA, November 30 - December 5, 2014
80. *Analysis of the confined cation-exchange process via XRD and EDS experiments*, Éverton C. Santos, G. Grassi, L. Michels, Z. Rozynek, M.A.S. Altoé, C.L.S. da Fonseca, R. Droppa Jr., A. Gholamipour-Shirazi, J.O. Fossum, and G.J. da Silva, poster presented 4th Niels Bohr Institute Academy, Copenhagen, Denmark, Nov. 10th - 14th, 2014
81. *Intercalation and Retention of Carbon Dioxide in a Smectite Clay promoted by Interlayer Cations*, Leander Michels, Jon Otto Fossum, Zbigniew Rozynek, Henrik Hemmen, Karin Rustenberg, Pawel A. Sobas, Georgios N. Kalantzopoulos, Geir Helgesen, Kenneth D. Knudsen, Marian Janek, Tomás S. Plivelic, Geraldo José da Silva, talk at CLIMIT PhD Seminar 2014 Oslo, 21 -22 October 2014
82. *Quincke rotating drops*, Alexander Mikkelsen, Zbigniew Rozynek, Jon Otto Fossum, Paul Dommersnes, poster presented at FLOW14:, 1st International Conference on Micro & Nanofluidics: Fundamentals and Applications, University of Twente - The Netherlands, 18-21 May 2014

83. *Colloidal particle tubes by sinking objects*, Alexander Mikkelsen, Arne Halvor Thingstad Pedersen, Zbigniew Rozynek, Paul Dommersnes, Jon Otto Fossum, poster presented at FLOW14:, 1st International Conference on Micro & Nanofluidics: Fundamentals and Applications, University of Twente - The Netherlands, 18-21 May 2014
84. *Intercalation and Retention of CO₂ in Fluorohectorite Clay at Near-Ambient Conditions*, Leander Michels, Henrik Hemmen, Zbigniew Rozynek, Karin Rustenberg, Tomas Plivelic, Geraldo Jose da Silva, and Jon Otto Fossum, poster presented at European Geosciences Union General Assembly 2014, Vienna, Austria, 27 April – 2 May 2014, Symposium ERE2.2, Long term storage of CO₂ and the petrophysics of unconventional hydrocarbons: Results from laboratory studies.
85. *Intercalation and Retention of Carbon Dioxide in Synthetic Fluorohectorite Clay at Near-Ambient Condition*, Leander Michels, Henrik Hemmen, Zbigniew Rozynek, Karin H. Rustenberg, Tomás S. Plivelic, Geraldo José da Silva, and Jon Otto Fossum, talk presented at 3rd International Workshop on Complex Physical Phenomena in Materials, Pontifica Unversidade Catolica do Rio de Janeiro, PUC-Rio, Brazil, February 17-22, 2014
86. *Electrohydrodynamic structuring of colloidal armoured drops*, Z. Rozynek, P. Dommersnes, A. Mikkelsen, L. Michels and J.O. Fossum, talk presented at 3rd International Workshop on Complex Physical Phenomena in Materials, Pontifica Unversidade Catolica do Rio de Janeiro, PUC-Rio, Brazil, February 17-22, 2014
87. *Quincke – Electrohydrodynamic drop rotation*, Alexander Mikkelsen, Zbigniew Rozynek, Paul Dommersnes and Jon Otto Fossum, talk presented at 3rd International Workshop on Complex Physical Phenomena in Materials, Pontifica Unversidade Catolica do Rio de Janeiro, PUC-Rio, Brazil, February 17-22, 2014
88. *Micrometer-Sized Pickering Emulsions Stabilized by Laponite Nanoparticles*, Azarmidokht Gholamipour-Shirazi, Marcio Carvalho, Jon Otto Fossum, talk presented at 3rd International Workshop on Complex Physical Phenomena in Materials, Pontifica Unversidade Catolica do Rio de Janeiro, PUC-Rio, Brazil, February 17-22, 2014
89. *EXAFS and XRD studies of water intercalation in synthetic nanosilicate Ni-Fluorohectorite*, Luciano Ribeiro, Leander Michels, Maria Suely Pedrosa Mundim, Marcelo Henrique Sousa, Roosevelt Droppa Jr., J.O. Fossum, Geraldo José da Silva, Kleber Carlos Mundim, poster presented at 3rd International Workshop on Complex Physical Phenomena in Materials, Pontifica Unversidade Catolica do Rio de Janeiro, PUC-Rio, Brazil, Feb. 17-22, 2014
90. *Cation Exchange in a Synthetic Clay Mineral*, G. Grassi, L. Michels, Z. Rozynek, R. Droppa Jr., A. Gholamipour-Shirazi, J. O. Fossum, and G.J. da Silva, poster presented at 3rd International Workshop on Complex Physical Phenomena in Materials, Pontifica Unversidade Catolica do Rio de Janeiro, PUC-Rio, Brazil, Feb. 17-22, 2014
91. *Electrohydrodynamic controlled assembly and fracturing of thin colloidal particle films confined at drop interfaces*, Zbigniew Rozynek, P. Dommersnes, A. Mikkelsen, L. Michels, J.O- Fossum, talk presented at 3rd International Workshop on Complex Physical Phenomena in Materials, Pontifica Unversidade Catolica do Rio de Janeiro, PUC-Rio, Brazil, February 17-22, 2014
92. *Janus colloidal shells by microfluidics: Preliminary results on shell fabrication and sintering*, Marzena Prus, Anna Kalicka, Tomasz Szymborski, Zbigniew Rozynek, Alexander Mikkelsen, Paul Dommersnes, Jon Otto Fossum, talk presented at 3rd International Workshop on Complex Physical Phenomena in Materials, Pontifica Unversidade Catolica do Rio de Janeiro, PUC-Rio, Brazil, February 17-22, 2014
93. *Intercalation And Retention In Clay At Near-Ambient Conditions*, L. Michels, H. Hemmen, Z. Rozynek, K.H. Rustenberg, T.S. Plivelic, G.J. Silva and J.O. Fossum, NSSM 2014, 11th Nordic Workshop on Scattering from Soft Matter, KTH Royal Institute of Technology, Stockholm, Sweden, Jan. 16-17, 2014
94. *A New Approach for Fabricating Janus and Patchy Shells*, Alexander Mikkelsen, Zbigniew Rozynek, Paul Dommersnes, Jon Otto Fossum, talk given at 2013 MRS Fall Meeting & Exhibit, December 1 - 6, 2013, Hynes Convention Center, Boston, MA, Symposium WW: Self-Organization and Nanoscale Pattern Formation.
95. *Orientational Order in a Glass of Charged Platelets with a Concentration Gradient*, Elisabeth Lindbo Hansen, S. Jabbari-Farouji, H. Mauroy, T. S. Plivelic, D. Bonn, J.O. Fossum, poster presented at 2013

- MRS Fall Meeting & Exhibit, December 1 - 6, 2013, Hynes Convention Center, Boston, MA, Symposium WW: Self-Organization and Nanoscale Pattern Formation
96. *Intercalation and Retention of Carbon Dioxide in Synthetic Fluorohectorite Clay at Near-Ambient Conditions*, Henrik Hemmen, Leander Michels, Zbigniew Rozynek, Karin Rustenberg, Tomas Plivelic, Jon Otto Fossum, poster presented at 2013 MRS Fall Meeting & Exhibit, December 1 - 6, 2013, Hynes Convention Center, Boston, MA, Symposium OO: Solid-State Chemistry of Inorganic Materials
 97. *Water Intercalation and Dynamics of Humidity Uptake by Meso-, and Nano-porous Clay*, Leander Michels, Henrik Hemmen, Zbigniew Rozynek, Giovanni Grassi, Roosevelt Droppa, Geraldo José da Silva and Jon Otto Fossum, poster presented at International Soft Matter Conference, Sapienza Università di Roma, Italy, Sept. 15-19 2013
 98. *New approach to fabricating Janus and Patchy colloidal shells*, Zbigniew Rozynek, Alexander Mikkelsen, Paul Dommersnes and Jon Otto Fossum, poster presented at International Soft Matter Conference, Sapienza Università di Roma, Italy, September 15-19 2013
 99. *Clay-based active eye pupil-like structure*, Zbigniew Rozynek, Paul Dommersnes, Alexander Mikkelsen, Rene Castberg and Jon Otto Fossum, invited talk presented at International Mini-Workshop on Multi-Component Soft and Complex Fluids, International Center for Condensed Matter Physics (ICOMP), University of Brasilia (UnB), Brasilia-DF, Brazil, July 15-16, 2013
 100. *Oriental order in a glass of charged platelets with a concentration gradient*, Elisabeth Lindbo Hansen, Sara Jabbari-Farouji, Henrik Mauroy, Tomas S. Plivelic, Daniel Bonn, and Jon Otto Fossum, invited talk presented at International Mini-Workshop on Multi-Component Soft and Complex Fluids, International Center for Condensed Matter Physics (ICOMP), University of Brasilia (UnB), Brasilia-DF, Brazil, July 15-16, 2013
 101. *Active structuring of colloidal microbeads on liquid drops (and new approach to fabricating patchy shells)*, Zbigniew Rozynek, P. Dommersnes, A. Mikkelsen, R. Castberg and Jon Otto Fossum. Invited talk given at International Mini-Workshop on Complex Drops and Emulsions Pontifícia Universidade Católica do Rio de Janeiro, Room 106, Cardeal Leme Building, PUC-Rio, Brazil, July 12, 2013
 102. *Swelling transition of a clay induced by heating*, E. L. Hansen, H. Hemmen, D. M. Fonseca, C. Coutant, K. D. Knudsen, T. S. Plivelic, D. Bonn, J. O. Fossum, invited talk given at 15th International Clay Conference (15ICC), Rio de Janeiro, Brazil, July 7-11, 2013
 103. *Dynamics of humidity uptake by meso-, and nano-porous clay*, L. Michels, H. Hemmen, Z. Rozynek, R. Droppa, G. J. da Silva, J.O. Fossum, talk at 15th International Clay Conference (15ICC), Rio de Janeiro, Brazil, July 7-11, 2013
 104. *Ciproflaxin drug capture and delivery by laponite and fluorohectorite clays: preliminary studies*, A. Rivera, Z. Rozynek, E. L. Hansen, L. Michels, J. O. Fossum, E. Altshuler, poster presented at 15th International Clay Conference (15ICC), Rio de Janeiro, Brazil, July 7-11, 2013
 105. *An orientationally ordered Laponite glass*, E. L. Hansen, T. S. Plivelic, *J. O. Fossum*, invited talk given at 15th International Clay Conference (15ICC), Rio de Janeiro, Brazil, July 7-11, 2013
 106. *Self-organization in complex fluids of smectite clay*, Y. Meheust, K. Parmar, *D. M. Fonseca, H. Hemmen, K. D. Knudsen, K. J. Måløy, J. O. Fossum*, invited talk given at 15th International Clay Conference (15ICC), Rio de Janeiro, Brazil, July 7-11, 2013
 107. *Intercalation and retention of carbon dioxide in synthetic fluorohectorite clay at near-ambient conditions*, H. Hemmen, K. H. Rustenberg, L. Michels, Z. Rozynek, T. S. Plivelic, J. O. Fossum, poster presented at 15th International Clay Conference (15ICC), Rio de Janeiro, Brazil, July 7-11, 2013
 108. *Studies Ni-fluorohectorite clay combining the XRD and EXAFS synchrotron methods*, L. Ribeiro, L. Michels, M. S. P. Mundim, M. H. Sousa, J. O. Fossum, G. J. da Silva, K. C. Mundim, poster presented at 15th International Clay Conference (15ICC), Rio de Janeiro, Brazil, July 7-11, 2013
 109. *Hendricks-Teller-types peaks in clay*, G. Grassi, L. E. Michels, R. Droppa Jr., J. O. Fossum, G. J. da Silva, poster presented at 15th International Clay Conference (15ICC), Rio de Janeiro, Brazil, July 7-11, 2013
 110. *Water intercalation in clay*, G. Grassi, L. E. Michels, R. Droppa Jr., J. O. Fossum, G. J. da Silva, poster presented at 15th International Clay Conference (15ICC), Rio de Janeiro, Brazil, July 7-11, 2013

111. *Synchrotron X-ray scattering studies in Cu-fluorohectorite*, C. L. S. Fonsêca, G. Grassi, M. A. S. Altoé, L. E. Michels, R. Droppa Jr., J. O. Fossum, G. J. da Silva, poster presented at 15th International Clay Conference (15ICC), Rio de Janeiro, Brazil, July 7-11, 2013
112. *Swelling clay dependent on certain physical parameters*, M. A. S. Altoé, G. Grassi, L. E. Michels, R. Droppa Jr., J. O. Fossum, G. J. da Silva, poster 15th International Clay Conf. (15ICC), Rio de Janeiro, Brazil, July 7-11, 2013
113. *Clay stabilized Pickering emulsions and Janus particles: electro-coalescence of oil-clay droplets*, Z. Rozynek, P. Dommersnes, R. Castberg, A. Mikkelsen, J. O. Fossum, poster presented at 15th International Clay Conference (15ICC), Rio de Janeiro, Brazil, July 7-11, 2013
114. *Supercritical CO₂ in aerogels and clay materials studied by small angle neutron scattering*, P. A. Sobas, K. D. Knudsen, G. Helgesen, A. T. Skjeltorp, H. Mauroy, J. O. Fossum, poster presented at 15th International Clay Conference (15ICC), Rio de Janeiro, Brazil, July 7-11, 2013
115. *Dynamic light scattering measurements of clay materials in liquid CO₂: preliminary results*, P. A. Sobas, K. D. Knudsen, G. Helgesen, A. T. Skjeltorp, K. J. Måløy, Z. Rozynek, J. O. Fossum, poster presented at 15th International Clay Conference (15ICC), Rio de Janeiro, Brazil, July 7-11, 2013
116. *Clay particle rotation and alignment in electric fields*, R. Castberg, Z. Rozynek, J. O. Fossum, K. J. Måløy, P. Dommersnes, poster at 15th International Clay Conference (15ICC), Rio de Janeiro, Brazil, July 7-11, 2013
117. *Active structuring of clay colloidal armour on liquid drops*, P. Dommersnes, Z. Rozynek, K. Kjerstad, R. Castberg, A. Mikkelsen, K. Hersvik, J. O. Fossum, invited talk given at 15th International Clay Conference (15ICC), Rio de Janeiro, Brazil, July 7-11, 2013
118. *Electric-field manipulation of clay particles: an overview*, Z. Rozynek, P. Dommersnes, R. Castberg, A. Mikkelsen, H. Mauroy, K. D. Knudsen, J. O. Fossum, invited talk given at 15th International Clay Conference (15ICC), Rio de Janeiro, Brazil, July 7-11, 2013
119. *Transistor and piezoelectric effects in graphene-clay heterostructures for use in memory storage*, L. Britnell, T. Georgiou, A. Mishchenko, Y. Geliang, D. C. Elias, J. O. Fossum, A. K. Geim, K. S. Novoselov, invited talk given at 15th International Clay Conference (15ICC), Rio de Janeiro, Brazil, July 7-11, 2013
120. *Mudslides of clayey soils*, Y. Meheust, A. Khaldoun, P. Møller, A. Fall, E. L. Hansen, G. Wegdam, B. de Leeuw, J. O. Fossum, D. Bonn, talk at 15th International Clay Conference (15ICC), Rio de Janeiro, Brazil, July 7-11, 2013
121. *Polypropylene/organoclay nanocomposites in electric fields*, Z. Rozynek, S. M. L. Silva, H. Mauroy, E. de Azevedo, G. J. da Silva, J. O. Fossum, T. Plivelic, talk given at 15th International Clay Conference (15ICC), Rio de Janeiro, Brazil, July 7-11, 2013
122. *Phase segregation in PNIPAAm-laponite hydrogels: the effect of dissolved oxygen*, H. Mauroy, Z. Rozynek, T. S. Plivelic, J. O. Fossum, G. Helgesen, K. D. Knudsen, poster presented at 15th International Clay Conference (15ICC), Rio de Janeiro, Brazil, July 7-11, 2013
123. *Polystyrene-clay nanocomposites: the effect of clay surface charge*, H. Mauroy, E. L. Hansen, Z. Rozynek, T. S. Plivelic, J. O. Fossum, G. Helgesen, K. D. Knudsen, poster presented at 15th International Clay Conference (15ICC), Rio de Janeiro, Brazil, July 7-11, 2013
124. *In situ monitoring of local bulk water contents and orientational order in paraffin/clay composites*, Z. Rozynek, R. Castberg, A. Mikkelsen, J. O. Fossum, poster presented at 15th International Clay Conference (15ICC), Rio de Janeiro, Brazil, July 7-11, 2013
125. *Hydration Transitions: High order analysis by synchrotron x-ray scattering*, G. Grassi, L. E. Michels, R. Droppa Jr, J. O. Fossum and G. J. da Silva, poster presented at Third annual Niels Bohr International Academy workshop on ESS science: crossing space and time domains with SAS and QENS, NBI, Univ. Copenhagen, June 24- 28 2013
126. *Water intercalation and dynamics of humidity uptake by meso-, and nano-porous clay*, L. E. Michels, G. Grassi, H. Hemmen, Z. Rozynek, G. J. da Silva, J. O. Fossum, R. Droppa Jr, poster presented at Third annual Niels Bohr International Academy workshop on ESS science: crossing space and time domains with SAS and QENS, NBI, Univ. Copenhagen, June 24- 28 2013
127. *Electric field nematic alignment of fluorohectorite clay particles in oligometric matrices*, Zbigniew Rozynek, Alexander Mikkelsen, Rene Castberg & Jon Otto Fossum, poster presented at Third annual

- Niels Bohr International Academy workshop on ESS science: crossing space and time domains with SAS and QENS, NBI, Univ. Copenhagen, June 24- 28 2013
128. *Synchrotron X-ray Scattering Studies in Cooper-Fluorohectorite*, Cyntia Fonseca, Giovanna Grassi, Mario Altoe, Geraldo Jose da Silva, Leander Michels, Rossevelt Droppa Jr., J.O. Fossum, XXXVI Encontro Nacional de Fisica da Materia Condensada, Águas de Lindóia, SP, Brazil, 13 a 17 de maio de 2013
 129. *CO₂ adsorption and intercalation in aerogels and clay materials studied by SANS*, Pawel A. Sobas, Kenneth D. Knudsen, Geir Helgesen, Arne T. Skjeltorp, Henrik Mauroy, Georgios N. Kalantzopoulos, Jon Otto Fossum, poster presented at Nordsoft International workshop on Soft matter Physics and Biomembranes, Reykjavik, Iceland, May 21-24. 2013
 130. *A new approach to fabricating Janus and Patchy particles*, Zbigniew Rozynek, Paul Dommersnes, Rene Castberg, Alexander Mikkelsen and Jon Otto Fossum poster presented at Nordsoft International workshop on Soft Matter Physics and Biomembranes, Reykjavik, Iceland, May 21-24. 2013
 131. *Structuring of colloidal particles on liquid drops*, Paul Dommersnes, Zbigniew Rozynek, Alexander Mikkelsen, Rene Castberg, Knut Kjerstad, Kjetil Hersvik and Jon Otto Fossum invited talk at Nordsoft International workshop Soft Matter Physics and Biomembranes, Reykjavik, Iceland, May 21-24. 2013
 132. *An orientationally ordered glass of soft colloidal platelets*, Elisabeth L. Hansen and Jon Otto Fossum, invited talk at Nordsoft International workshop on Soft Matter Physics and Biomembranes, Reykjavik, Iceland, May 21-24. 2013
 133. *An orientationally ordered glass of soft colloidal platelets*, Elisabeth L. Hansen and Jon Otto Fossum, invited talk at at 1st NTNU-PAN workshop on Soft and Complex Matter Physics, Warsaw, Institute of Physical Chemistry, Polish Academy of Sciences, 26 April 2013
 134. *Structuring of colloidal particles on liquid drops*, Z. Rozynek, P. Dommersnes, A. Mikkelsen, R. Castberg and J.O. Fossum, invited talk at 1st NTNU-PAN workshop on Soft and Complex Matter Physics, Warsaw, Institute of Physical Chemistry, Polish Academy of Sciences, 26 April 2013
 135. *A new approach to fabricating Janus and Patchy particles*, Zbigniew Rozynek, Paul Dommersnes, Rene Castberg, Alexander Mikkelsen and Jon Otto Fossum, invited talk at 1st NTNU-PAN workshop on Soft and Complex Matter Physics, Warsaw, Institute of Physical Chemistry, Polish Academy of Sciences, 26 April 2013
 136. *Supercritical CO₂ in aerogels and clay materials studied by small angle neutron scattering*, P.A. Sobas, K.D. Knudsen, G. Helgesen, A.T. Skjeltorp, H. Mauroy, J.O. Fossum, Soft Matter Confinement, Geilo School, March 11-21, 2013
 137. *Dynamic Light Scattering measurements of clay materials in liquid CO₂: Preliminary results*, P.A. Sobas, K.D. Knudsen, G. Helgesen, A.T. Skjeltorp, K.J. Måløy, Z. Rozynek, J.O. Fossum, Soft Matter Confinement, Geilo School, March 11-21, 2013
 138. *Dynamics of Humidity uptake by meso- and nano-porous clay* (poster), Michels L., Hemmen H., Rozynek Z., Droppa R., da Silva G.J., Fossum J.O., Soft Matter Confinement, Geilo School, March 11-21, 2013
 139. *Diffusion through layered clay monitored by small angle neutron scattering* (poster), H. Mauroy, K.D. Knudsen., Fossum J.O, Soft Matter Confinement, Geilo School, March 11-21, 2013
 140. *Humidity Intercalation Processes in Synthetic Nanosilicates by Synchrotron X-ray Scattering* (poster), Grassi G., Michels L., Droppa, R., da Silva G.J., Fossum J.O., Soft Matter Confinement, Geilo School, March 11-21, 2013
 141. *Dynamics of Humidity in Iron Fluorohectorite* (poster), Altoe M.A., Grassi G., Fonseca C.L.S, Michels L., Droppa, R., Fossum J.O., da Silva G.J., Soft Matter Confinement, Geilo School, March 11-21, 2013
 142. *Intercalation and Retention of Carbon Dioxide in Synthetic Fluorohectorite Clay at near-ambient Conditions* (talk) (i), J.O. Fossum, H. Hemmen, T. Plivelic, K. Rustenberg, L. Michels, E. Johnsrud, Z. Rozynek, 10th Nordic Workshop on Scattering from Soft Matter, Niels Bohr Institute at Copenhagen University, January 17-18, 2013
 143. *Transição do Regime de Hidratação da Níquel-Fluorohectorita por Difração de Raios X Síncrotron*, (talk) Luciano Ribeiro, Jeane Silveira de Oliveira, Maria S. P Mundim, Marcelo Henrique Sousa, Geraldo Jose da Silva, Jon Otto Fossum, Kleber Carlos Mundim, QUITEL 2012, Natal – RN, Brazil December 2-7, 2012

144. *Active structuring of colloidal armour on liquid drops* (talk) (i), P Dommersnes, Z Rozynek, K Kjerstad, R Castberg, A Mikkelsen, K Hersvik and J O Fossum, Mini-Workshop on Complex Flows and Turbulence, 6-7 de dez. 2012, Departamento de Física, Universidade Federal de Pernambuco, Recife, PE, Brazil
145. *Electric Field Induced Colloidal Assemblies on Drop Interfaces* (talk), Paul Dommersnes, Knut Kjerstad, Alexander Mikkelsen, Kjetil Hersvik, Rene Castberg, Zbigniew Rozynek, Jon Otto Fossum, 2012 MRS Fall Meeting & Exhibit, November 25 - 30, 2012, Hynes Convention Center, Boston, MA, Symposium U: Colloidal Crystals, Quasicrystals, Assemblies, Jammings, and Packings
146. *Promoting Orientational Order in Soft Solids* (poster) Elisabeth Lindbo Hansen, Henrik Hemmen, Paul Dommersnes, Jon Otto Fossum, 2012 MRS Fall Meeting & Exhibit, November 25 - 30, 2012, Hynes Convention Center, Boston, MA, SymposiumU: Colloidal Crystals, Quasicrystals, Assemblies, Jammings, and Packings
147. *Water diffusion studies in layered synthetic nanosilicates studied by synchrotron X-ray scattering* (poster) Grassi, G., Michels, L. E., Hemmen, H., Droppa Jr, R., Da Silva, G. J. And Fossum, J. O., IV International Workshop on Layered Materials. UNICAMP; Campinas, Brasil, Nov. 26-28 2012
148. *Dipolar Ordering of Clay Particles in various Carrier Fluids* (talk), Z. Rozynek, H. Mauroy, R. C. Castberg, K. D. Knudsen, J. O. Fossum, MECC 2012, 6th Mid-European Clay Conference, Průhonice, Czech Republic, 4 - 9 September 2012
149. *Intercalation of Carbon Dioxide In A Smectite Clay* (poster) Hemmen Henrik, Rolseth Erlend, Fonseca Davi, Lindbo Hansen Elisabeth, Fossum Jon Otto, Plivelic Tomas, Rustenberg Karin, 4th International Congress, Eurosoil 2012, Bari Italy, 2-6 July 2012
150. *Evaporation Induced Order In Aqueous Soft Solid Phases Of Clays* (poster) Hansen Elisabeth Lindbo, Hemmen Henrik, Dommersnes Paul, Fossum Jon Otto, 4th International Congress, Eurosoil 2012, Bari Italy, 2-6 July 2012
151. *Soil clay oil suspensions subjected to electric fields* (poster), Z. Rozynek, T. Zacher, M. Caplovicová, M. Janek and J.O. Fossum, 4th International Congress, Eurosoil 2012, Bari Italy, 2-6 July 2012
152. *Effects of moderate warming on the structure and rheology of a fluorohectorite clay in water* (poster) Hansen Elisabeth Lindbo, Hemmen Henrik, Fonseca Davi De Miranda, Fossum Jon Otto, Coutant Christophe, Knudsen Kenneth Dahl, Plivelic Tomás, 4th International Congress, Eurosoil 2012, Bari Italy, 2-6 July 2012
153. *Synchrotron X-Ray Scattering Studies of Soft Nanostructures In Fluorohectorite Clay* (poster) Fossum Jon Otto, Hemmen Henrik, Lindbo Hansen Elisabeth, Rozynek Zbigniew, Fonseca Davi, D. Knudsen Kenneth, Meheust Yves, 4th International Congress, Eurosoil 2012, Bari Italy, 2-6 July 2012
154. *Clay-Oil drops in electric fields* (talk) Paul Dommersnes, Knut Kjerstad, Kjetil Hersvik, Alexander Mikkelsen, Rene Castberg, Zbigniew Rozynek, Jon Otto Fossum, International Workshop on Soft Matter Physics & Complex Flows, Lofoten, Norway, May 22-25, 2012
155. *Soil Clay Oil Suspensions Subjected to Electric Field* (poster) Zbigniew Rozynek, Tomáš Zacher, Marián Janek Mária Čaplovičová and J.O. Fossum, International Workshop on Soft Matter Physics & Complex Flows, Lofoten, Norway, May 22-25, 2012
156. *Electric field alignment of clay particles* (poster) Pawel Sobas, Kenneth D. Knudsen, Geir Helgesen, Arne Skjeltorp, Knut Jørgen Måløy, Jon Otto Fossum, International Workshop on Soft Matter Physics & Complex Flows, Lofoten, Norway, May 22-25, 2012
157. *Swelling transition of a clay induced by heating* (poster) Elisabeth Lindbo Hansen, H. Hemmen, D. M. Fonseca, C. Coutant, K. D. Knudsen, T. S. Plivelic, D. Bonn, J. O. Fossum, International Workshop on Soft Matter Physics & Complex Flows, Lofoten, Norway, May 22-25, 2012
158. *Carbon dioxide intercalation in a clay at near-ambient conditions* (poster) Henrik Hemmen, Erlend G. Rolseth Karin Rustenberg, Davi M. Fonseca, Elisabeth L. Hansen, Jon Otto Fossum and Tomás S. Plivelic, International Workshop on Soft Matter Physics & Complex Flows, Lofoten, Norway, May 22-25, 2012
159. *Electric field alignment of clay particles* (poster) Rene Castberg, Zbigniew Rozynek, Knut Jørgen Måløy, Jon Otto Fossum, Eirik Flekkøy, Paul Dommersnes, International Workshop on Soft Matter Physics & Complex Flows, Lofoten, Norway, May 22-25, 2012

160. *Dynamics of humidity uptake by meso-, and nano-porous synthetic clay Lithium- Fluorohectorite* (talk) Leander Michels, Giovanni Grassi, Geraldo Jose da Silva, Henrik Hemmen, Jon Otto Fossum, Roosevelt Droppa Jr., XXXV Encontro Nacional de Física da Matéria Condensada - ENFMC 2012, Águas de Lindóia, SP, Brazil, 14 a 18 de maio de 2012
161. *Synchrotron X-Ray Studies of Water Intercalation and Diffusion in Synthetic Clay Lithium-Fluorohectorite* (poster) Giovanni Grassi, Leander Michels, Geraldo Jose da Silva, Henrik Hemmen, Jon Otto Fossum, Roosevelt Droppa Jr., XXXV Encontro Nacional de Física da Matéria Condensada - ENFMC 2012, Águas de Lindóia, SP, Brazil, 14 a 18 de maio de 2012
162. *X-ray studies of interlayer water absorption and mesoporous water transport in a weakly hydrated clay* (poster) H. Hemmen, Y. Méheust, L. R. Alme, and J. O. Fossum, Session HS8.3.4: The role of interfaces in flow and transport in porous media, European Geosciences Union General Assembly 2012, Vienna, Austria, 22 – 27 April 2012
163. *Clay-based composites for drug delivery: Preliminary studies* (poster) (i) A. Rivera, Z. Rozynek, E. Lindbo Hansen, E. Altshuler, J.O. Fossum, International Conference: New materials in the Age of Convergence, Havana, Cuba, March 12-16, 2012
164. *Clay-oil droplet suspensions in electric field* (talk) (i) Z. Rozynek, J.O. Fossum, K., Kjerstad, A. Mikkelsen, R. Castberg, MarchCOMeeting'12: Complex Matter Physics: Materials, dynamics and patterns, Havana, Cuba, March 6-9, 2012
165. *Clay-based composites for drug delivery: Preliminary studies* (poster) (i) A. Rivera, Z. Rozynek, E. Lindbo Hansen, E. Altshuler, J.O. Fossum, MarchCOMeeting'12: Complex Matter Physics: Materials, dynamics and patterns, Havana, Cuba, March 6-9, 2012
166. *Phase separations in PNIPA-Laponite Nanocomposites* (poster) (i) Henrik Mauroy, K.D. Knudsen, J.O. Fossum, Z. Rozynek, MarchCOMeeting'12: Complex Matter Physics: Materials, dynamics and patterns, Havana, Cuba, March 6-9, 2012
167. *Self-organization from electrically polarized clay particles* (talk) (i) Z. Rozynek, J.O. Fossum, K.D. Knudsen, B. Wang, Y. Meheust, R. Castberg, MarchCOMeeting'12: Complex Matter Physics: Materials, dynamics and patterns, Havana, Cuba, March 6-9, 2012
168. *The effect of temperature on the rheology and structure of clay suspensions* (poster) (i) E. Lindbo Hansen, H. Hemmen, D.M. Fonseca, C. Coutant, J.O. Fossum, K.D. Knudsen, T.S. Plivelic, MarchCOMeeting'12: Complex Matter Physics: Materials, dynamics and patterns, Havana, Cuba, March 6-9, 2012
169. *Anisotropy in PS-clay nanocomposites* (talk) (i) Henrik Mauroy, K.D. Knudsen, J.O. Fossum, Z. Rozynek, MarchCOMeeting'12: Complex Matter Physics: Materials, dynamics and patterns, Havana, Cuba, March 6-9, 2012
170. *Carbon dioxide intercalation in Na-fluorohectorite clay at near-ambient conditions* (talk, poster) (i), Henrik Hemmen, E. Rolseth, D. M. Fonseca, E.L. Hansen, J.O. Fossum, T. Plivelic, MarchCOMeeting'12: Complex Matter Physics: Materials, dynamics and patterns, Havana, Cuba, March 6-9, 2012
171. *Using a high-speed camera to study alignment of sodium fluorohectorite* (talk, poster) (i) Rene Castberg, Zbigniew Rozynek, Knut Jørgen Måløy, J.O. Fossum, Eirik Flekkøy, MarchCOMeeting'12: Complex Matter Physics: Materials, dynamics and patterns, Havana, Cuba, March 6-9, 2012
172. *Texture evolution of drying clay gel samples* (poster) (i) Marcus B.L. Santos, G.J. da Silva, Paulo R.G. Fernandes, J.O. Fossum, 2nd International Workshop on Complex Physical Phenomena in Materials, Porto de Galinhas – PE, Brazil, Jan. 31 – Feb. 3, 2012
173. *Dynamics of humidity uptake by meso- and nano- porous synthetic clay Lithium-Fluorohectorite* (poster) (i) L.E. Michels, H. Hemmen, G.J. da Silva, J.O. Fossum, R. Droppa Jr., G. Grassi, 2nd International Workshop on Complex Physical Phenomena in Materials, Porto de Galinhas – PE, Brazil, Jan. 31 – Feb. 3, 2012
174. *The diffusion of vapor inside the mesoporosity of a dry clay* (poster) (i) H. Hemmen, Y. Mehesut, L. R. Alme, J.O. Fossum, 2nd International Workshop on Complex Physical Phenomena in Materials, Porto de Galinhas – PE, Brazil, Jan. 31 – Feb. 3, 2012
175. *Nanostructural alterations and rheology of clay dispersions in response to heating* (poster) E. Lindbo Hansen, H. Hemmen, D.M. Fonseca, C. Coutant, K.D. Knudsen, T.S. Plivelic, D. Bonn, J.O. Fossum, 2nd

- International Workshop on Complex Physical Phenomena in Materials, Porto de Galinhas – PE, Brazil, Jan. 31 – Feb. 3, 2012
176. *Clay-based composites for drug delivery: Preliminary studies* (poster) (i) A. Rivera, Z. Rozynek, E. Lindbo Hansen, E. Altshuler, J.O. Fossum, 2nd International Workshop on Complex Physical Phenomena in Materials, Porto de Galinhas – PE, Brazil, Jan. 31 – Feb. 3, 2012
 177. *CO₂ and porous media - SANS* (talk, poster) (i) Pawel A. Sobas, Kenneth D. Knudsen, Geir helgesen, Arne Skjeltorp, Jon Otto Fossum, 2nd International Workshop on Complex Physical Phenomena in Materials, Porto de Galinhas – PE, Brazil, Jan. 31 – Feb. 3, 2012
 178. *X-ray studies of Carbon Dioxide Intercalation* in Na-fluorohectorite Clay at Near-Ambient Conditions (talk, poster) (i) Henrik Hemmen, Erlend G. Rolseth, Davi M. Fonseca, Elisabeth L. Hansen, Jon Otto Fossum, Tomas S. Plivelic, 2nd International Workshop on Complex Physical Phenomena in Materials, Porto de Galinhas – PE, Brazil, Jan. 31 – Feb. 3, 2012
 179. *Synthesis and Characterization of Polyesterene-Clay nanocomposites* (talk, poster) (i) Henrik Mauroy, Kenneth D. Knudsen, Geir Helgesen, Jon Otto Fossum, Zbigniew Rozynek, 2nd International Workshop on Complex Physical Phenomena in Materials, Porto de Galinhas – PE, Brazil, Jan. 31 – Feb. 3, 2012
 180. *Electro-hydrodynamic and electro-rheological effects in clay-oil droplets* (talk) (i) Paul Dommersnes, Knut Kjerstad, Kjetil Hersvig, Alexander Mikkelsen, Zbigniew Rozynek, Jon Otto Fossum, 2nd International Workshop on Complex Physical Phenomena in Materials, Porto de Galinhas – PE, Brazil, Jan. 31 – Feb. 3, 2012
 181. *On the Influence of Interlayer Water Intercalation on the Global Mesoporous Water Transport in a Clay: X-Ray Studies.* (talk), Henrik Hemmen; Lars R. Alme; Jon Otto Fossum; Yves Meheust, Materials Research Society 2011 MRS Fall Meeting, Boston, USA, November 28 - December 2, 2011 Symposium RR6: Dynamics in Porous Media
 182. *Nanostructural Alterations and Rheological Aging of Clay Dispersions in Response to Heating.* (poster), Elisabeth L. Hansen; Henrik Hemmen; Davi M. Fonseca; Christophe Coutant; Tomás Plivelic; Kenneth D. Knudsen; Jon Otto Fossum, Materials Research Society 2011 MRS Fall Meeting, Boston, USA, November 28 - December 2, 2011, Symposium SS7: Properties and Processes at the Nanoscale
 183. *Controlled Deposition of Clay Nanoplatelets by Fluid Evaporation from Droplets.* (poster), Henrik Hemmen; Karianne Austad; Elisabeth Lindbo Hansen; Davi Fonseca; Jon Otto Fossum Materials Research Society 2011 MRS Fall Meeting, Boston, USA, November 28 - December 2, 2011, Symposium EE9: Self Organization and Nanoscale Pattern Formation
 184. *SAXS-WAXS studies of temperature induced changes in the structure of saline clay suspensions* (poster), Henrik Hemmen, Nils I Ringdal, E. Novais de Azevedo, Mario Engelsberg, Elisabeth Lindbo Hansen, Yves Méheust, Jon Otto Fossum, K. D. Knudsen, International Workshop on Complex Phenomena in Superconductors and Magnetic Systems, Øystese, Hardanger, Norway Aug.29–Sept. 2, 2011
 185. *X-ray studies of interlayer water absorption and mesoporous water transport in a weakly hydrated clay* (talk), Henrik Hemmen, et.al. 1st Nordic Workshop on Soft Matter Physics, (Nordforsk network, Århus, Denmark, June 28th – July 1st, 2011
 186. *Temperature induced structural alterations of colloidal clay suspensions* (talk), Elisabeth Lindbo Hansen, et.al. 1st Nordic Workshop on Soft Matter Physics, (Nordforsk network, Århus, Denmark, June 28th – July 1st, 2011
 187. *Experimental studies of structured organoclays in electric field* (talk), Zbigniew Rozynek, et.al., Bi-annual meeting of the Norwegian Physical Society, Oslo, Norway, June 20-22, 2011
 188. *Electric field induced rotation of Clay particles* (poster), Zbigniew Rozynek, Rene Castberg, Jon Otto Fossum, Knut Jørgen Måløy, Eirik Grude Flekkøy, Cooperative Phenomena in Flows, International Advanced Study School, Bardøla Høyfjellshotell, Geilo, Norway, April 4-14 2011
 189. *Simultaneous XRD and EXAFS measurements of water diffusion in synthetic Ni-Fluohectorite* (poster) L.E. Michels, L. Ribeiro, M.S.P. Mundim, M. H. Sousa, J.O. Fossum, G.J. da Silva and K. C. Mundim Cooperative Phenomena in Flows, International Advanced Study School, Bardøla Høyfjellshotell, Geilo, Norway, April 4-14 2011
 190. *Studies of water intercalation and diffusion in nanosilicates by means of XAFS technique* (poster), L. Ribeiro, L.E. Michels, M.S.P. Mundim, M. H. Sousa, J.O. Fossum, G.J. da Silva and K. C. Mundim

- Cooperative Phenomena in Flows, International Advanced Study School, Bardøla Høyfjellshotell, Geilo, Norway, April 4-14 2011
191. *WAXS studies of Clay/Paraffin Composites* (poster), Z Rozynek, R Castberg, A Mikkelsen, D Chernyshov, J O Fossum and K J Måløy, Cooperative Phenomena in Flows, International Advanced Study School, Bardøla Høyfjellshotell, Geilo, Norway, April 4-14 2011
 192. *SAXS-WAXS studies of temperature induced changes in the structure of saline clay suspensions* (talk), Elisabeth Lindbo Hansen, Henrik Hemmen, Davi d.M. Fonseca, Kenneth D. Knudsen, Jon Otto Fossum, 8th Nordic Workshop on Scattering from Soft Matter, IFE-Kjeller, Norway January 26-27, 2011
 193. *Phase separations in PNIPA-Laponite Nanocomposites* (talk), Henrik Mauroy, Zbiginiew Rozynek, Kenneth D. Knudsen, Jon Otto Fossum, International Workshop on Complex Physical Phenomena in Materials, Golden Tulip Recife Palace Hotel, Recife-PE, Brazil December 14-17, 2010
 194. *The rheology of quick clays – Implications for landslides of clayey soils* (talk), Y. Méheust, A. Khaldoun, P. Møller, A. Fall, G. Wegdam, B. de Leeuw, J. O. Fossum, and D. Bonn, International Workshop on Complex Physical Phenomena in Materials, Golden Tulip Recife Palace Hotel, Recife-PE, Brazil December 14-17, 2010
 195. *Temperature induced changes in the structure of saline clay suspensions* (talk), E. L. Hansen, H. Hemmen, D. d. M. Fonseca, C. Coutant, K. D. Knudsen, T. Plivelic, J. O. Fossum, International Workshop on Complex Physical Phenomena in Materials, Golden Tulip Recife Palace Hotel, Recife-PE, Brazil December 14-17, 2010
 196. *X-ray studies of interlayer water absorption and mesoporous water transport in a weakly hydrated clay* (talk), H. Hemmen, L. R. Alme, J. O. Fossum, and Y. Meheust, Int. Workshop on Complex Physical Phenomena in Materials, Golden Tulip Recife Palace Hotel, Recife-PE, Brazil Dec. 14-17, 2010
 197. *Electric Field Induced Rotation of Clay Particles* (talk), Z Rozynek, J O Fossum, R Castberg, K J Måløy and E G Flekkøy, International Workshop on Complex Physical Phenomena in Materials, Golden Tulip Recife Palace Hotel, Recife-PE, Brazil December 14-17, 2010
 198. *Fluid imbibition in paper fibers: Precursor front* (poster), Eduardo N. de Azevedo, Lars R. Alme, M. Engelsberg, Jon Otto Fossum and Paul Dommersnes, International Workshop on Complex Physical Phenomena in Materials, Golden Tulip Recife Palace Hotel, Recife-PE, Brazil December 14-17, 2010
 199. *Colloidal platelet self-organization from solvent evaporation* (poster), E. L. Hansen, H. Hemmen, J. O. Fossum, International Workshop on Complex Physical Phenomena in Materials, Golden Tulip Recife Palace Hotel, Recife-PE, Brazil December 14-17, 2010
 200. *Phase diagram of polydisperse Na-fluorohectorite-water suspensions: A synchrotron small-angle X-ray scattering study* (poster), Davi de Miranda Fonseca, Yves Meheust, Kenneth D. Knudsen and Jon Otto Fossum, International Workshop on Complex Physical Phenomena in Materials, Golden Tulip Recife Palace Hotel, Recife-PE, Brazil December 14-17, 2010
 201. *The Isotropic-Nematic interfacde in suspensions of Na-fluorohectorite synthetic clay* (poster), H. Hemmen, N. I. Ringdal, E. N. De Azevedo, M. Engelsberg, E. L. Hansen, Y. Méheust, J. O. Fossum, and K. D. Knudsen, International Workshop on Complex Physical Phenomena in Materials, Golden Tulip Recife Palace Hotel, Recife-PE, Brazil December 14-17, 2010
 202. *Diffusion through layered clay monitored by small angle neutron scattering* (poster), H. Mauroy, K. D. Knudsen, J. O. Fossum, International Workshop on Complex Physical Phenomena in Materials, Golden Tulip Recife Palace Hotel, Recife-PE, Brazil December 14-17, 2010
 203. *Electric Field Induced Structuring of Modified Na-fluorohectorite Clay Particles* (poster), Z Rozynek, J O Fossum, B Wang and K D Knudsen, International Workshop on Complex Physical Phenomena in Materials, Golden Tulip Recife Palace Hotel, Recife-PE, Brazil December 14-17, 2010
 204. *Confined water molecules in layered structures* (poster), Rômulo P. Tenório, M. Engelsberg, Jon Otto Fossum and Geraldo J. da Silva, International Workshop on Complex Physical Phenomena in Materials, Golden Tulip Recife Palace Hotel, Recife-PE, Brazil December 14-17, 2010
 205. *CO2 interaction with porous structures: Use of Scattering methods* (talk), Kenneth D. Knudsen, G. Helgesen, J.O. Fossum, A. Skjeltorp, International Workshop on CO2 and Fluids in Nanoscience, International Center for Condensed Matter Physics (ICOMP), Universidade of Brasilia (UnB), Brasilia-DF, Brazil December 7-10, 2010

206. *Colloidal platelet self-organization from solvent evaporation* (talk), E. L. Hansen, H. Hemmen, J. O. Fossum, International Workshop on CO₂ and Fluids in Nanoscience, Int. Center for Condensed Matter Physics (ICCMP), Universidade of Brasilia (UnB), Brasilia-DF, Brazil December 7-10, 2010
207. *X-ray studies of interlayer water absorption and mesoporous water transport in a weakly hydrated clay* (talk), H. Hemmen, L. R. Alme, J. O. Fossum, and Y. Meheust, International Workshop on CO₂ and Fluids in Nanoscience, International Center for Condensed Matter Physics (ICCMP), Universidade of Brasilia (UnB), Brasilia-DF, Brazil December 7-10, 2010
208. *Electric Field Induced Structuring of Modified Na-fluorohectorite Clay Particles* (talk), Z Rozynek, J O Fossum, B Wang and K D Knudsen, International Workshop on CO₂ and Fluids in Nanoscience, International Center for Condensed Matter Physics (ICCMP), Universidade of Brasilia (UnB), Brasilia-DF, Brazil December 7-10, 2010
209. *Diffusion through layered clay monitored by small angle neutron scattering* (poster), H. Mauroy, K. D. Knudsen, J. O. Fossum, International Workshop on CO₂ and Fluids in Nanoscience, International Center for Condensed Matter Physics (ICCMP), Universidade of Brasilia (UnB), Brasilia-DF, Brazil December 7-10, 2010
210. *Electric Field Induced Rotation of Clay Particles* (poster), Z Rozynek, J O Fossum, R Castberg, K J Måløy AND E G Flekkøy, International Workshop on CO₂ and Fluids in Nanoscience, International Center for Condensed Matter Physics (ICCMP), Univ. of Brasilia (UnB), Brasilia-DF, Brazil December 7-10, 2010
211. *Phase diagram of polydisperse Na-fluorohectorite-water suspensions: A synchrotron small-angle X-ray scattering study* (poster), Davi de Miranda Fonseca, Y. Meheust, K. D. Knudsen and Jon Otto Fossum, International Workshop on CO₂ and Fluids in Nanoscience, International Center for Condensed Matter Physics (ICCMP), Universidade of Brasilia (UnB), Brasilia-DF, Brazil Dec. 7-10, 2010
212. *The Isotropic-Nematic interfacde in suspensions of Na-fluorohectorite synthetic clay* (poster), H. Hemmen, N. I. Ringdal, E. N. De Azevedo, M. Engelsberg, E. L. Hansen, Y. Méheust, J. O. Fossum, and K. D. Knudsen, International Workshop on CO₂ and Fluids in Nanoscience, International Center for Condensed Matter Physics (ICCMP), Univ. of Brasilia (UnB), Brasilia-DF, Brazil December 7-10, 2010
213. *Temperature-induced Positional Ordering in Colloidal Liquid Crystals* (talk), Henrik Hemmen, Elisabeth Lindbo Hansen, Davi de Miranda Fonseca, Christophe Coutant, Mats Sigstad and Jon Otto Fossum, Materials Research Society 2010 MRS Fall Meeting, Boston, USA, November 29 - December 3, 2010, Symposium L: Liquid-Crystal Materials--Beyond Displays
214. *Orientalional Ordering in Aqueous Clay Gels and/or Glasses* (poster), Elisabeth Lindbo Hansen, Henrik Hemmen and Jon Otto Fossum, Materials Research Society 2010 MRS Fall Meeting, Boston, USA, November 29 - December 3, 2010, Symposium EE: Solid State Chemistry of Inorg. Mat. VIII
215. *Intercalated Water in Synthetic Lithium-fluorhectorite Clay*(poster), Romulo P. Tenorio, Mario Engelsberg, Jon O. Fossum and Geraldo J. da Silva, Materials Research Society 2010 MRS Fall Meeting, Boston, USA, November 29 - December 3, 2010, Symposium EE: Solid State Chemistry of Inorganic Materials VIII
216. *Electric-field Induced Alignment of Modified Na-fluorohectorite Clay Particles* (poster), Zbigniew Rozynek, BaoXiang Wang and Jon Otto Fossum, Materials Research Society 2010 MRS Fall Meeting, Boston, USA, November 29 - December 3, 2010, Symposium EE: Solid State Chemistry of Inorganic Materials VIII
217. *Electric-field induced alignment of modified Na-fluorohectorite clay particles* (talk), Rozynek Z, Wang B and Fossum J O, 5th Mid-European Clay Conf. (MECC2010). Budapest, Hungary, 25-29 August 2010
218. *Fluid imbibition in paper fibers: Precursor front* (poster), Eduardo N. de Azevedo, Lars R. Alme, Mario Engelsberg, Jon Otto Fossum, Paul Dommersnes, Henrik Hemmen, Gordon Research Conference on Flow and Transport in Permeable Media, July 10-16, 2010, Bates College, Lewiston, ME, USA
219. *X-ray studies of interlayer water absorption and mesoporous water transport in a weakly hydrated clay* (poster), Henrik Hemmen, Lars Ramstad Alme, Jon O. Fossum, Yves Méheust, Gordon Research Conf. on Flow and Transport in Permeable Media, July 10-16, 2010, Bates College, Lewiston, ME, USA
220. *Volume Fraction Versus Order in Nematic Fluorohectorite Dispersions* (poster), E.L Hansen, H. Hemmen, J. O. Fossum, 2010-Trilateral Meeting on Clays (2010TMC-CSSJ-CMS). Seville, Spain, June 6-11, 2010

221. *Flow Induced Ordering in Na-Fluorohectorite Dispersion* (poster), H. Hemmen, E. L. Hansen, E. V. Blindheim and J. O. Fossum, 2010-Trilateral Meeting on Clays (2010TMC-CSSJ-CMS). Seville, Spain, June 6-11, 2010
222. *Photothermal studies of hydration process in nanolayered synthetic silicate.* (poster), Geraldo Jose da Silva, Marco Antonio Amato, Jon Otto Fossum, XXXIII Encontro Nacional de Física da Matéria Condensada (ENFMC) da Sociedade Brasileira de Física, Águas de Lindóia (SP), Brasil, de 10 a 14 de maio de 2010
223. *The Isotropic-Nematic Interface in Suspensions of Na-fluorohectorite Synthetic Clay.* (talk), H. Hemmen, N. I. Ringdal, E. N. De Azevedo, M. Engelsberg, Elisabeth L. Hansen, Yves Méheust, Jon O. Fossum and Kenneth D. Knudsen, Seventh Nordic Workshop on Scattering from Soft Matter. Helsinki, Finland, January 27-28, 2010
224. *X-ray Scattering Study of a Clay/Gelatine Hybrid Electrorheological Elastomer* (poster), Baoxiang Wang, Zbigniew Rozynek, Tomas S. Plivelic and Jon Otto Fossum, Seventh Nordic Workshop on Scattering from Soft Matter. Helsinki, Finland, January 27-28, 2010
225. *Wide Angle X-Ray Scattering Studies of Guided Assembled Organoclay Electro-rheological Suspensions* (talk), Baoxiang Wang, Zbigniew Rozynek, Tomas S. Plivelic and Jon Otto Fossum, Materials Research Society 2009 MRS Fall Meeting, Boston, USA, November 30 - December 4, 2009, Symposium QQ: Responsive Gels and Biopolymer Assemblies, Paper number QQ5.10, Dec. 1 2009
226. *Roughness of Fracture Surfaces in a Model Nanosilicate Gel Determined from Magnetic Resonance Imaging* (poster), Henrik Hemmen, Eduardo N. de Azevedo, Christian A. Nielsen, Knut Magnus, Ricardo E. de Souza, Mario Engelsberg and Jon Otto Fossum, Materials Research Society 2009 MRS Fall Meeting, Boston, USA, November 30 - December 4, 2009, Symposium FF: Mechanical Behavior of Nanomaterials-Experiments and Modeling.
227. *Fast Speed Camera Imaging and Synchrotron X-ray Studies of Dynamic Structuring from Nano-layered Clay Particles* (poster), Zbigniew J. Rozynek, Jon O. Fossum, Baoxiang Wang, Rene Castberg and Knut J. Maloy, Materials Research Society 2009 MRS Fall Meeting, Boston, USA, November 30 - December 4, 2009, Symposium MM: Ultrafast Processes in Materials Science
228. *Structural Changes in Polymer/Clay Melted Nanocomposites Induced by Electric Field: Synchrotron X-ray Studies of Structure Dynamics and Rheology* (poster), Tomás S. Plivelic, Suédina M.L. Silva, Eduardo N. de Azevedo, Geraldo J. da Silva, Zbigniew Rozynek, Baoxiang Wang and Jon Otto Fossum, Materials Research Society 2009 MRS Fall Meeting, Boston, USA, November 30 - December 4, 2009, Symposium QQ: Responsive Gels and Biopolymer Assemblies
229. *X-ray Scattering Study of a Clay/Gelatine Hybrid Electrorheological Elastomer* (poster), Baoxiang Wang, Zbigniew Rozynek, Tomas S. Plivelic and Jon Otto Fossum, Materials Research Society 2009 MRS Fall Meeting, Boston, USA, November 30 - December 4, 2009, Symposium QQ: Responsive Gels and Biopolymer Assemblies
230. *Highly Ordered Nematic Phases and Emerging Positional Ordering of Nanosized Clay Platelets in Water* (poster), Elisabeth Lindbo Hansen, Nils Ivar Ringdal, Bård Martin Kjelling, Henrik Hemmen, Jon Otto Fossum, Eduardo Novais de Azevedo, Mario Engelsberg, Yves Méheust, Chan Kim, Shashidhara Marathe, In Wha Cho, Do Young Noh, Materials Research Society 2009 MRS Fall Meeting, Boston, USA, November 30 - December 4, 2009, Symposium QQ: Responsive Gels and Biopolymer Assemblies
231. *Electric field manipulation of polymer nanocomposite morphologies* (poster), Tomás S. Plivelic, Zbigniew Rozynek, Suédina M.L. Silva, Baoxiang Wang, E. N. de Azevedo, Geraldo J. da Silva, and Jon Otto Fossum, Maxlab 22nd Annual User Meeting, Scandic Star, Lund, Sweden, Nov. 2- 3, 2009
232. *Magnetic field effects on liquid crystalline phases in the synthetic clay Na-Fluorohectorite studied by synchrotron SAXS* (poster), Elisabeth Lindbo Hansen, Henrik Hemmen, Jon Otto Fossum, SAS2009, XIV International Conference on Small-Angle Scattering, Oxford, UK, Sept. 13-18, 2009
233. *Electric field manipulation of polymer nanocomposite morphologies* (poster), Tomás S. Plivelic, Zbigniew Rozynek, Suédina M.L. Silva, Bao-Xiang Wang, Eduardo N. de Azevedo, Geraldo J. da Silva and Jon Otto Fossum, SAS 2009, XIV International Conference on Small-Angle Scattering, Oxford, UK, Sept. 13-18, 2009

234. *SAXS Studies of Highly Ordered Nematic Phases in Aqueous Dispersions of Sodium-Fluorohectorite Nanodiscs* (poster), Elisabeth Lindbo Hansen, Nils Ivar Ringdal, Bård Martin Kjelling, Henrik Hemmen, Jon Otto Fossum, Eduardo Novais de Azevedo, Mario Engelsberg, Yves Méheust, Chan Kim, Shashidhara Marathe, In Wha Cho, Do Young Noh SAS2009, XIV International Conference on Small-Angle Scattering, Oxford, UK, Sept. 13-18, 2009
235. *Small Angle X-ray Scattering Studies of Double Responsive Co Doped TiO_x Nanorods* (talk), Baoxiang Wang, Zbigniew Rozynek, Henrik Hemmen, Elisabeth Lindbo Hansen and Jon Otto Fossum, ChinaNANO 2009, Beijing, China, Sept. 1-3, 2009
236. *Electrorheological Properties of Organically Modified Nanolayered Laponite: Influence of Intercalation: Adsorption and Wettability* (talk), Baoxiang Wang, Min Zhou, Zbigniew Rozynek and Jon Otto Fossum, 2nd International Conference on Smart Materials and Nanotechnology in Engineering, Weihai, China, 8-11 July 2009
237. *Structural Changes in Polymer/Clay Melted Nanocomposites Induced by Electric Fields*(poster), Tomás S. Plivelic, Suédina M.L. Silva, Zbigniew Rozynek, BaoxiangWang, Eduardo N. De Azevedo, Geraldo J. da silva, Jon Otto Fossum, 14th International Clay Conference, Castellaneta M., Italy, June 14-20, 2009 Session NM7: Polymer-clay nanocomposites: preparation techniques and theoretical formulations, 1830-2000 Sunday 14 June 2009
238. *Wide Angle Scattering Study of a Clay/Gelatin Electrorheological Elastomer*(poster), Baoxiang Wang, Zbigniew Rozynek, Min Zhou, Jon Otto Fossum, 14th International Clay Conference, Castellaneta M., Italy, June 14-20, 2009, Session NM7: Polymer-clay nanocomposites: preparation techniques and theoretical formulations 1830-2000 Sunday 14 June 2009
239. *Quickclay and Landslides of Clayey Soils* (talk), Asmae Khaldoun, Peder Moller, Gerard Wegdam, Bert De Leeuw, Yves Méheust, Jon Otto Fossum, Daniel Bonn, 14th International Clay Conference, Castellaneta M., Italy, June 14-20, 2009, Session GG5: Clays in Geological Processes,920-940 Tuesday 16 June 2009
240. *Electrorheological Properties of Organically Modified Laponite Intercalation: Adsorption and Wettability* (talk), Baoxiang Wang, Min Zhou, Zbigniew Rozynek, Jon Otto Fossum, 14th International Clay Conference, Castellaneta M., Italy, June 14-20, 2009, Session CE4: Colloids & Rheology, 1210-1230 Tuesday 16 June 2009
241. *Humidity Transport in Quasi One-Dimensional Na- Fluorohectorite Powders* (poster), Lars Ramstad Alme, Yves Méheust, Jon Otto Fossum, 14th International Clay Conference, Castellaneta M., Italy, June 14-20. 2009, Session HE5: Moisture transport through clay, 1830-2000 Wednesday 17 June 2009
242. *NMR Spectroscopy studies of Water Intercalation in Na-fluorohectorite* (talk), Rômulo P. Tenório, Lars Ramstad Alme, Mario Engelsberg, Jon Otto Fossum, Fernando Hallwass, 14th International Clay Conference, Castellaneta M., Italy, June 14-20 2009, Session UM3: General topics, 1500-1520 Thursday 18 June 2009
243. *Roughness of Fractures in Laponite Gels Determined from Magnetic Resonance Imaging* (talk), Henrik Hemmen, Eduardo Novais De Azevedo, Christian A. Nielsen, Knut Magnus Ricardo E. De Souza, Mario Engelsberg, Jon Otto Fossum, 14th International Clay Conference, Castellaneta M., Italy, June 14-20. 2009, Session CE5: Desiccation and Fracture in Clay 1750-1810 Thursday 18 June 2009
244. *Phase Diagram of Polydisperse Na-fluorohectorite-Water Suspensions: A Synchrotron Small Angle X-Ray Scattering Study* (poster), Davi De Miranda Fonseca, Yves Méheust, Jon Otto Fossum, Kenneth Dahl Knudsen, 14th International Clay Conference, Castellaneta M., Italy, June 14-20, 2009, Session NM8: Self-assembly from Clay Particles: From Nano to Macro, 1830-2000 Thursday 18 June 2009
245. *Electrorheological Behaviour of Nematically Phase Separated Na-Fluorohectorite* (poster), Baoxiang Wang, Zbigniew Rozynek, Henrik Hemmen, Elisabeth Lindbo Hansen, Jon Otto Fossum, 14th International Clay Conference, Castellaneta M., Italy, June 14-20, 2009, Session NM8: Self-assembly from Clay Particles: From Nano to Macro, 1830-2000 Thursday 18 June 2009
246. *Self-Assembly and Dynamics of Clay Platelets in a Magnetic Field* (talk), Eduardo N. De Azevedo, Mario Engelsberg, Jon Otto Fossum, Ricardo E. de Souza, 14th International Clay Conference, Castellaneta M., Italy, June 14-20, 2009, Session NM8: Self-assembly from Clay Particles: From Nano to Macro, 850-920 Friday 19 June 2009

247. *Isotropic-Nematic Interfaces in Suspensions of Na-Fluorohectorite Synthetic Clay-Order, Orientation and Magnetic Field Response* (talk), Henrik Hemmen, Nils Ringdal, Eduardo Novais De Azevedo, Elisabeth Lindbo, Hansen Matteus, Häger Yves Méheust, Jon Otto Fossum, Mario Engelsberg, Kenneth D. Knudsen, 14th International Clay Conference, Castellaneta M., Italy, June 14-20, 2009, Session NM8: Self-assembly from Clay Particles: From Nano to Macro, 1020-1040 Friday 19 June 2009
248. *Highly Ordered Nematic Phases and Emerging Positional Ordering in Aqueous Dispersions of Na-Fluorohectorite* (talk), Elisabeth Lindbo Hansen, Nils Ivar Ringdal, Bård Martin Kjelling, Henrik Hemmen, Jon Otto Fossum, Eduardo Novais De Azevedo, Mario Engelsberg, Yves Méheust, Chan Kim, Shashidhara Marathe, In Wha Cho, Do Young Noh, 14th International Clay Conference, Castellaneta M., Italy, June 14-20, 2009, Session NM8: Self-assembly from Clay Particles: From Nano to Macro, 1230-1250 Friday 19 June 2009
249. *Wide Angle X-Ray Scattering Studies of Guided Assembled Organoclay Electrorheological Suspensions* (talk), Baoxiang Wang, Zbigniew Rozynek, Min Zhou, Jon Otto Fossum, 14th International Clay Conference, Castellaneta M., Italy, June 14-20, 2009, Session CE7: Modified Clays & New Applications 1430-1500 Friday 19 June 2009
250. *Dynamic Column Formation of Na-Fluorohectorite Clay Particles: Wide Angle X-Ray Scattering and Rheological Studies* (talk), Zbigniew Rozynek, Baoxiang Wang, Min Zhou, Jon Otto Fossum, 14th International Clay Conference, Castellaneta M., Italy, June 14-20, 2009, Session NM8: Self-assembly from Clay Particles: From Nano to Macro, 1520-1540 Friday 19 June 2009
251. *Self-similarity structures in clay gel samples induced by a controllable aging effect*, Marcus B. L. Santos, Geraldo J. da Silva, Marcelo H. Souza, Paulo R.G. Fernandes, Jon Otto Fossum, Encontro Nacional de Física da Matéria Condensada (ENFMC) da Sociedade Brasileira de Física, Águas de Lindóia (SP), Brasil, de 11 (segunda-feira) a 15 (sexta-feira) de maio de 2009
252. *Room Temperature studies of the relative humidity in synthetic clays by means of synchrotron XRD technique*(poster), Leander Eduard Michels, Maria Suely Pedrosa Mundim, Geraldo Jose da Silva, Marcelo Henrique de Sousa, Luciano Ribeiro, Jon Otto Fossum, Encontro Nacional de Física da Matéria Condensada (ENFMC)da Sociedade Brasileira de Física, Águas de Lindóia (SP), Brasil, de 11 (segunda-feira) a 15 (sexta-feira) de maio de 2009
253. *Studies of water diffusion and intercalation in synthetic nanosilicates by means of EXAFS technique* (poster), Felipe Gomes Lacerda, Maria Suely Pedrosa Mundim, Geraldo Jose da Silva, Marcelo Henrique de Sousa, Jon Otto Fossum, Encontro Nacional de Física da Matéria Condensada (ENFMC) da Sociedade Brasileira de Física, Águas de Lindóia (SP), Brasil, de 11 (segunda-feira)-15 (sexta-feira) de maio de 2009
254. *WAXS and Rheological Studies of Dynamic Column Formation in Na-FLHC Clay Particles* (invited talk), Z Rozynek, B Wang, M Zhou, J O Fossum, 6th Nordic Workshop on Scattering from Soft Matter, University of Århus, Denmark, January 28&29 2009
255. *Structural changes in polymer/clay melted nanocomposites induced by electric fields* (poster), Tomás S. Plivelic, Suédina M.L. Silva, Zbigniew Rozynek, Bao-Xiang Wang, Eduardo N. de Azevedo, Geraldo J. da Silva, Jon Otto Fossum, 6th Nordic Workshop on Scattering from Soft Matter, University of Århus, Denmark, January 28&29 2009
256. *Isotropic-Nematic Interfaces In Suspensions of Na-Fluorohectorite Synthetic Clay*(poster), Henrik Hemmen, Nils I Ringdal, Eduardo N. De Azevedo, Elisabeth Lindbo Hansen, M. Häger, Yves Méheust, Jon Otto Fossum, Mario Engelsberg, Kenneth D. Knudsen, 6th Nordic Workshop on Scattering from Soft Matter, University of Århus, Denmark, January 28&29 2009
257. *Liquid Crystalline Ordering In Gravitationally Settled And Evaporating Aqueous Dispersions Of Clay Nanoplatelets Studied By Small Angle X-Ray Scattering* (poster), Elisabeth Lindbo Hansen, Eduardo N. De Azevedo, Yves Méheust, Henrik Hemmen, Bård M. Kjelling, Jon Otto Fossum, Do Young Noh, Chan Kim, Shashidhara Marathe, In Wha Cho, Mario Engelsberg, 6th Nordic Workshop on Scattering from Soft Matter, University of Århus, Denmark, January 28&29 2009
258. *Small Angle X-ray Scattering Studies of Double Responsive Co Doping TiOx Nanorods*(poster), Baoxiang Wang, Zbigniew Rozynek, Henrik Hemmen, Elisabeth Lindbo Hansen and Jon Otto Fossum, 6th Nordic Workshop on Scattering from Soft Matter, Univ. Århus, Denmark, January 28&29 2009

259. *Guided Self-assembly of Nanostructured Titanium Oxide* (invited talk) Baoxiang Wang, Min Zhou, Zbigniew Rozynek and Jon Otto Fossum, Materials Research Society 2008 MRS Fall Meeting Dec 1-5 2008, Boston, MA, USA, Symposium V: Materials, Devices, and Characterization for Smart Systems, Paper number V3.5, December 2 2008
260. *The Isotropic-Nematic Interface in Suspensions of Na-Fluorohectorite Synthetic Clay* (poster), Henrik Hemmen, N.I. Ringdal, E.N de Azevedo, E.L. Hansen, Y. Méheust, J.O. Fossum, M. Engelsberg, K.D. Knudsen, Materials Research Society 2008 MRS Fall Meeting Dec 1-5 2008, Boston, MA, USA, Symposium CC: Design, Fabrication, and Self Assembly of -Patchy- and Anisometric Particles
261. *Dynamic Chain-formation of Na-Fluorohectorite Clay Particles: Wide Angle X-ray Scattering and Electrorheometry results* (talk), Rozynek, Z.; Wang, B.; Zhou, M.; Fossum, J.O., 11th conference on Electrorheological Fluids and Magnetorheological Suspensions, Dresden, Germany August 25-29, 2008
262. *Wide Angle Scattering Study of Clay/gelatin Electrorheological Elastomer* (poster), Wang, B.; Rozynek, Z.; Zhou, M.; Fossum, J.O., 11th conference on Electrorheological Fluids and Magnetorheological Suspensions, Dresden, Germany on August 25-29, 2008
263. *Guided self-assembly of nanostructured titanium oxide* (talk), B. Wang, M. Zhou, Z. Rozynek, J.O. Fossum The International MRS 2008 Conference Beijing AAA Satellite Meeting on Advanced Technologies for Advanced Characterizations of Advanced Materials, Institute of Physics Chinese Academy of Sciences, Beijing, China June 15-18, 2008
264. *Self-assembly of Silver Oxide Nanoparticles to Micro-spindles, Micro-rices and Micro-dendrites* (poster), M. Zhou; B. Wang; Z. Rozynek; J. Fossum, Session F 19: Functional Ceramics, Materials Research Society (MRS) International Materials Research Conf., Chongqing, China, June 9 - 12, 2008
265. *Guided Selfassembly of Titanium Oxide Nanowires and Nanorods* (talk), B. Wang, M. Zhou, Z. Rozynek, J.O. Fossum, Nanotech 2008, Boston, USA, June 1-5 2008
266. *Stimulated Self-assembly from Clay Nanoplatelets* (poster), J.O. Fossum et al., Nanotech 2008, Boston, USA, June 1-5 2008
267. *Mesoscopic changes of a model clay soil due to the microscopic swelling of its crystallites* (talk), Meheust, Y.; Fossum, J.O.; Knudsen, K.D.; Maloy, K.J.; Helgesen, G., European Geosciences Union, General Assembly 2008, Vienna, Austria, 13-18 April 2008
268. *Transport of water in a weakly-hydrated model clay soil* (poster), L.R. Alme, J.O. Fossum; Y. Meheust, European Geosciences Union, General Assembly 2008, Vienna, Austria, 13-18 April 2008
269. *Wide Angle Scattering Study of Organic Modified Fluorohectorite Electrorheological Suspensions*, Baoxiang Wang, Zbigniew Rozynek, Min Zhou, Jon Otto Fossum, 5th Nordic Workshop on Scattering from Soft Matter at NTNU in Trondheim, Norway, February 6&7 2008
270. *Wide Angle Scattering Studies of Dynamic Chain Formation in Na-FLHC* (poster), Zbigniew Rozynek, Baoxiang Wang, Jon Otto Fossum, 5th Nordic Workshop on Scattering from Soft Matter at NTNU in Trondheim, Norway, February 6&7 2008
271. *Utilizing WAXS to characterize the orientation distribution of clay assemblies - application to electro-rheological suspensions and weakly-hydrated samples* (talk), Y. Méheust, J.O. Fossum, K.D. Knudsen, K.P.S. Pamar, K.J. Måløy, G. Helgesen, 5th Nordic Workshop on Scattering from Soft Matter at NTNU in Trondheim, Norway, February 6&7, 2008
272. *X-Ray Studies of Intercalation and Diffusion in Nanosilicates: a relationship between Experiment and Simulation* (poster), Geraldo Jose da Silva, Luciano Ribeiro, Marcelo Henrique Sousa, Jon Otto Fossum, Maria Suely Pedrosa Mundim, Kleber Carlos Mundim, VI Encontro da SBPMat (Sociedade Brasileira de Pesquisa em Materiais), Natal-RN, Brasil, 28 de outubro a 1° de novembro de 2007
273. *Small angle scattering and AFM study of organic modified laponite nanoparticles* (poster), Wang, B. X.; Zhou, M. and Fossum, J.O., Veeco Scandinavian Conference & Users Meeting: Developments in Atomic Force Microscopy for advanced imaging techniques At Royal Institute of Technology (KTH), Department of Surface Chemistry, Stockholm, Sweden, 24th&25th October 2007
274. *Geometry and Dynamics of Adsorbed Water in Na-Fluorohectorite Clay Hydrates* (poster), Romulo P. Tenorio, Lars Ramstad Alme, Mario Engelsberg, Jon Otto Fossum and Fernando Hallwass, EUROMAR Magnetic Resonance Conference, Tarragona, Spain, July 1-6, 2007

275. *Evaporating droplets of nanoparticle suspensions* (talk), Ahmed Gmira, Hege S. Bjørnsen, Paul Dommersnes and Jon Otto Fossum, The COMPLEX conference, Bergen, Norway, June 8, 2007
276. *An electrorheological study of clay nanoparticles suspended in oil* (poster), Børge Schelderupsen and Jon Otto Fossum, Research Council of Norway Nanomat Conference, Bergen, Norway, 5-7 June, 2007
277. *Guided self-assembly of nanoparticles in electric fields: Nanostructured electrorheology* (poster), Helene Rødal, Svein Åsmund Slungård, Ahmed Gmira and Jon Otto Fossum, Research Council of Norway Nanomat Conference, Bergen, Norway, 5-7 June, 2007
278. *Electric Polarization and Chain Formation of Nano-Layered Particles* (poster), J.O. Fossum, Y. Méheust, K.P.S. Parmar, K.D. Knudsen, K.J. Måløy and D.d.M. Fonseca, Research Council of Norway Nanomat Conference, Bergen, Norway, 5-7 June, 2007
279. *Temperature investigations of water diffusion in synthetic nano-silicates by means of DXAS* (talk), G.J. da Silva, Luciano Ribeiro, M.S.P. Mundim, J.O. Fossum, K.C. Mundim, Reunião anual de usuários do LNLS– Campinas – SP. Brasil, 20-21 February 2007
280. *Spontaneous and guided self-assembly of clay nanoplatelets*, J.O. Fossum, Y. Méheust, K.P.S. Parmar, K.D. Knudsen, K.J. Måløy and D.d.M. Fonseca, Norwegian Physical Society: Annual Meeting of The Division for Condensed Matter Physics with Atomic Physics, Wadahl (Norway), Sept.13-15, 2006
281. *WAXS studies of water transport in layered synthetic silicate*, L. R. Alme, J.O. Fossum and Y. Meheust, NTNU, Norwegian Physical Society: Annual Meeting of The Division for Condensed Matter Physics with Atomic Physics, Wadahl (Norway), Sept.13-15, 2006
282. *SANS and SAXS Investigations of Colloidal Dispersions of Clay Nanoplatelets and Magnetic Nanoparticles*, F.L.O. Paula, J. Depeyrot, G.J. da Silva, R. Aquino, F.A. Tourinho, J.O. Fossum, K.D. Knudsen, Norwegian Physical Society: Annual Meeting of The Division for Condensed Matter Physics with Atomic Physics, Wadahl (Norway), Sept.13-15, 2006
283. *Optical trapping and microrheology in complex fluids*, Bjørnar Sandnes, Mark Buchanan, Knut Jørgen Måløy, Geir Helgesen and Jon Otto Fossum, Norwegian Physical Society: Annual Meeting of The Division for Condensed Matter Physics with Atomic Physics, Wadahl (Norway), Sept.13-15, 2006
284. *Water-Na-Fluohectorite interactions: An AFM study*, A. Gmira and J.O. Fossum, Norwegian Physical Society: Annual Meeting of The Division for Condensed Matter Physics with Atomic Physics, Wadahl (Norway), Sept.13-15, 2006
285. *Laponite nanoparticle droplet evaporation on a glass surface: "The coffee stain effect" studied by AFM*, A. Gmira, J.O. Fossum and H.S. Bjørnsen, Norwegian Physical Society: Annual Meeting of The Division for Condensed Matter Physics with Atomic Physics, Wadahl (Norway), Sept.13-15, 2006
286. *Mesoscopic structure of dried-pressed clay samples from SAXS measurements*, Y. Meheust, S. Dagois-Bohy, J.O. Fossum and K. Knudsen, Norwegian Physical Society: Annual Meeting of The Division for Condensed Matter Physics with Atomic Physics, Wadahl (Norway), Sept.13-15, 2006
287. *The porous space inside bundles of polarized phyllo-silicate crystallites – A SAXS stud*, K.S.P. Parmar, Y. Meheust, J.O. Fossum, K.D. Knudsen, K.J. Maløy, and D.d.M. Fonseca, Norwegian Physical Society: Annual Meeting of The Division for Condensed Matter Physics with Atomic Physics, Wadahl (Norway), Sept.13-15, 2006
288. *Phase behavior of platelet-shaped nanosilicate colloids in saline solutions; a SAXS study*, D. de M. Fonseca, Y. Meheust, J. O. Fossum, K. D. Knudsen, K. J. Måløy and K. Parmar, Norwegian Physical Society: Annual Meeting of The Division for Condensed Matter Physics with Atomic Physics, Wadahl (Norway), Sept.13-15, 2006
289. *Temperature investigations of intercalation and diffusion processes in synthetic nano-silicates by means of synchrotron X-ray absorption spectroscopy*, Luciano Ribeiro M., S. P. Mundim, G.J. da Silva, J. O. Fossum, K. C. Mundim, International Conference on Electronic Spectroscopy and Structure, Foz do Iguacu, Brazil, August 28 - September 1, 2006
290. *Difusão anisotrópica e ordenamento ordenacional na fase gel de uma suspensão coloidal de fluorhectorita*, E.N. de Azevedo, M. Engelsberg, J. O. Fossum, and R. E. de Souza., IX Jornada Brasileira de Ressonância Magnética, Recife, Pernambuco Brasil, 8-11 de agosto, 2006

291. *Spontaneous and guided self-assembly of clay nanoplatelets* (poster), J.O. Fossum, Y. Méheust, K.P.S. Parmar, K.D. Knudsen, K.J. Måløy and D.M. Fonseca, Proc. YITP Workshop; Struct. and Dynamics in Soft Matter–Beyond Self-Organization and Hierarchical Structures, Kyoto (Japan), July 2006
292. *SANS and SAXS Investigations of Colloidal Dispersions of Clay Nanoplatelets and Magnetic Nanoparticles*, F.L.O. Paula, J. Depeyrot, G.J. da Silva, R. Aquino, F.A. Tourinho, J.O. Fossum, K.D. Knudsen, The International Conference on Small Angle Scattering, Kyoto, (Japan), July 2006
293. *SAXS study of the positional order in a colloidal solution of fluorohectorite clay at different temperatures*, D.d.M. Fonseca, Y. Méheust, J.O. Fossum, K.D. Knudsen, The International Conference on Small Angle Scattering, Kyoto, (Japan), July 2006
294. *Nematic ordering of platelet-shaped nanosilicate colloids in saline solutions*, D.d.M. Fonseca, Y. Meheust, J.O. Fossum, K.D. Knudsen, K.J. Måløy and K. Parmar, The International Conference on Small Angle Scattering, Kyoto, (Japan), July 2006
295. *Mesoscopic structure of dried-pressed clay samples from SAXS measurements*, Y. Meheust, S. Dagois-Bohy, J.O. Fossum and K.D. Knudsen, The International Conference on Small Angle Scattering, Kyoto, (Japan), July 2006
296. *A small angle scattering study of the porous space inside bundles of polarized clay particles*, K.S.P. Parmar, Y. Meheust, J.O. Fossum, K.D. Knudsen, K.J. Maløy, and D.d.M. Fonseca, The International Conference on Small Angle Scattering, Kyoto, (Japan), July 2006
297. *From Self-Organization of Nanoparticles to Advanced and Smart Materials*, Jon Otto Fossum, Research Council of Norway, Nanomat Conference, Oslo (Norway), June 2006
298. *Study of individual Na-fluotohectorite particles, size, morphology and atomic structure*, A. Gmira and J. O. Fossum, Groupe francais des argiles GFA - Clay Minerals Society CMS Clay Conf., Ile d'Oleron, (France) June 2006
299. *Water Na-fluotohectorite interactions; An AFM study*, Ahmed Gmira and Jon Otto Fossum, Groupe francais des argiles GFA - Clay Minerals Society CMS Clay Conf., Ile d'Oleron, (France) June 2006
300. *Polarization and aggregation of clay particles suspended in oil - a study using x-ray scattering*, Y. Méheust, K.P.S. Parmar, J.O. Fossum, K.D. Knudsen, K.J. Måløy and D.d.M. Fonseca, Groupe francais des argiles GFA - Clay Minerals Society CMS Clay Conference, Ile d'Oleron, (France) June 2006
301. *Electro-rheology of smectite clay suspensions submitted to a strong electric field*, K.P.S. Parmar, Y. Méheust and J.O. Fossum, Groupe francais des argiles GFA - Clay Minerals Society CMS Clay Conference, Ile d'Oleron, (France) June 2006
302. *Experimental investigations of dispersion of clays and magnetic nanoparticles*, Paula, Fábio Luiz de Oliveira; Depeyrot, Jerome; da Silva, G.J.; Aquino R.; Tourinho, F.A.; Fossum, Jon Otto; Knudsen, Kenneth, Groupe francais des argiles GFA - Clay Minerals Society CMS Clay Conference, Ile d'Oleron, (France) June 2006
303. *Water Na-fluorohectorite interactions; A microscopical study*, Ahmed Gmira and Jon Otto Fossum, Nanotechnology in Northern Europe, Helsinki (Finland) May 2006
304. *Intercalation studies of nano-silicates utilizing the self-consistent x-ray scattering model and GSA*, Luciano Ribeiro, Kleber C. Mundim, Maria Suley P. Mundim, Dionicalros S. De Vasconcelos, Geraldo J. Da Silva, J.O. Fossum, XXIX Encontro Nacional de Física da Matéria Condensada, 2006, Sao Lourenco-MG, (Brazil) May 2006
305. *Colloidal stability of dispersion of laponite platelets and magnetic nanoparticles*, Paula, Fábio Luiz de Oliveira; Depeyrot, Jerome; da Silva, G.J.; Aquino R.; Tourinho, F.A.; Fossum, Jon Otto; Knudsen, Kenneth D. XXIX Encontro Nacional de Física da Matéria Condensada, 2006, Sao Lourenco-MG, (Brazil) May 2006
306. *Nanolayered Silicates (Clays) as Example of Soft and Complex Matter: From Nano to Macro using Synchrotrons* and Microscopes*, J. O. Fossum et.al., 1st User Meeting of NTNU Nanolab, Jægtvolden (Norway) March 9-10, 2006
307. *Difusão geometricamente restrita em nano-camadas de silicatos sintéticos*, da Silva, G.J., Mundim, M.S.P., Fossum J.O., Meheust, Y., Maloy, K.J., Fonseca, D.M, Reunião anual de usuários do LNLS – Campinas – SP. Brasil, 20-21 February 2006

308. *Relação sinérgica simulação-experimento no estudo dos processos de intercalação em nano silicatos sintéticos*, G.J. da Silva, J.O. Fossum, et.al. I SEEDMOL –DF – First Symposium on Electronic Structure and Molecular Dynamics of DF, Universidade de Brasília, Brazil, 13-15 of February 2006
309. *Interconnected Physical Phenomena in Clays: Scattering Experiments*, Jon Otto Fossum et.al., 3rd Nordic workshop on Scattering from soft matter, Uppsala, (Sweden), Feb. 2-3, 2006
310. *Mesostructural changes in a weakly hydrated smectite clay during hydration transitions*, Y. Meheust, J. O. Fossum, K. D. Knudsen, K. J. Måløy, and G. Helgesen, , 13th International Conf. on Clay, Tokyo (Japan), August 2005
311. *Dynamics of a water intercalation front in a nano-layered smectite clay, studied by synchrotron X-ray scattering*, K. J. Måløy, G. Løvoll, B. Sandnes, J. O. Fossum, D. d. M. Fonseca, Y. Meheust, G. J. da Silva, M. S. P. Mundim, and R. Droppa, 13th Int. Conference on Clay, Tokyo (Japan), Aug. 2005
312. *Mesostructural changes in a weakly hydrated smectite clay during hydration transitions*, Yves Méheust, Jon O. Fossum, Kenneth D. Knudsen, Knut J. Måløy and Geir Helgesen, Biannual meeting of The Norwegian Physical Society, Ulvik, (Norway), August 2005
313. *Intercalation-enhanced electric polarization and chain formation of nano-layered clay platelets in oil*, Y. Meheust, K. Parmar, J. O. Fossum, K.-J. Måløy and D. de Miranda de Fonseca, Research Council of Norway, Nanomat Conference, Trondheim (Norway), June 2005
314. *Mesostructural changes in a weakly hydrated smectite clay during hydration transitions*, Y. Meheust, J. O. Fossum, K. D. Knudsen, K. J. Måløy, Research Council of Norway Nanomat Conference, Trondheim (Norway), June 2005
315. *A small Angle Scattering study of the porous space inside electrorheological bundles of platelet-shaped clay particles*, K. Parmar, Y. Meheust, J. O. Fossum, K. D. Knudsen and K.-J. Måløy, Reserach Council of Norway, Nanomat Conference, Trondheim (Norway), June 2005
316. *SANS and SAXS investigations of synthetic clays dispersions dopped with ferrofluids.*, da Silva, G. J.; Paula, Fábio Luiz de Oliveira; Depeyrot, Jerome; Tourinho, Francisco Augusto; Araujo, Luciano Ribeiro de; Fossum, Jon Otto; Knudsen, Kenneth Dahl, XXVIII Encontro Nacional de Física da Matéria Condensada, 2005, Santos-SP, (Brazil) May 2005
317. *Complex Phenomena in Synthetic Clays – Nanodiffusion*, da Silva, G. J.; Mundim, Maria Suely Pedrosa; Droppa, Roosevelt; Måløy, K. J.; Sandnes, Bjornar; Løvoll, Grunde; Meheust, Yves; Fossum, Jon Otto, 15a. Reunião anual de usuários do LNLS, 2005, Campinas, (Brazil) April 2005
318. *SANS and SAXS investigations of synthetic clays dispersions doped with ferrofluid.*, Paula, Fábio Luiz de Oliveira; da Silva, G.J.; Depeyrot, Jerome; Araujo, Luciano Ribeiro de; Itri, Rosângela; Knudsen, Kenneth Dahl; Fossum, Jon Otto, NATO: Advanced Study on 'Dynamics of Complex Interconnected Systems: Networks and Bioprocesses', 2005, Geilo, (Norway) April 2005
319. *Intercalation-enhanced electric polarization and chain formation of nano-layered particles*, Y. Meheust, K. P. S. Parmar, J. O. Fossum, K. D. Knudsen, K. J. Måløy and D. d. M. Fonseca, NATO: Advanced Study on 'Dynamics of Complex Interconnected Systems: Networks and Bioprocesses', 2005, Geilo, (Norway) April 2005

Some popular science publications/talks/news articles past 10 years:

- *Leire og salt i vannet øker oljeutvinningen, i tillegg til å øke holdbarheten på mat*, Teknisk Ukeblad February 2, 2017
- *Adding clay to saline nanofluids creates useful materials*, Science News November 25, 2016 <https://www.sciencedaily.com/releases/2016/11/161125104608.htm>
- *Newly Developed Nanostructures Help Boost Oil Production*, AZO Nano November 28, 2016 <http://www.azonano.com/news.aspx?newsID=35235>
- *Clay Nanostructures Boost Food's Shelf Life*, American Laboratory November 30, 2016 <http://www.americanlaboratory.com/330853-Clay-Nanostructures-Boost-Food-s-Shelf-Life/>
- *Clay and a little salt water can make for enhanced oil recovery*, Gemini Research News November 25 2016 <http://geminiresearchnews.com/2016/11/clay-little-salt-water-can-make-enhanced-oil-recovery/>

- *Clay and a little salt water can make for enhanced oil recovery* – Phys.Org, November 25, 2016 <http://www.energydaily.com.au/oil-headlines/clay-and-a-little-salt-water-can-make-for-enhanced-oil-recovery-phys-org/>
- *New nanoscience suspends oil in clay, expanding the possibilities for cosmetic and personal care emulsions*, Cosmetics November 30 2016 <http://www.cosmeticsdesign.com/Formulation-Science/New-nanoscience-suspends-oil-in-clay-expanding-the-possibilities-for-cosmetic-and-personal-care-emulsions>
- *Investigadores Noruegueses Descobrem que a Argila é um dos Melhores Materiais de Construção para o Sequestro de Carbono*, Engenhariacivil.com April 14, 2015 (<http://www.engenhariacivil.com/argila-material-construcao-sequestro-carbono>)
- *Argila obișnuită ar putea fi folosită pentru capturarea carbonului*, Green Report 2015, (<http://www.green-report.ro/argila-obisnuita-ar-putea-fi-folosita-pentru-capturarea-carbonului/>)
- *Ordinary clay could capture carbon in CCS: Adsorption comparable to advanced materials*: tcetoday April 11 2015 (http://www.tcetoday.com/latest%20news/2015/april/ordinary-clay-could-capture-carbon-in-ccs.aspx#.VSz3_tj9k-V)
- *Ordinary Clay Effective Carbon Capture, Say Experts*: TechTimes April 11 2015 (<http://www.techtimes.com/articles/45616/20150411/ordinary-clay-effective-carbon-capture-say-experts.htm>)
- *Algunas arcillas capturan muy bien el dióxido de carbon*: Tendencias Tecnologicas April 9 2015 (http://www.tendencias21.net/Algunas-arcillas-capturan-muy-bien-el-dioxido-de-carbono_a40174.html)
- *Ordinary clay could hold the key to future carbon capture*: ClickGreen April 8 2015 (<http://www.clickgreen.org.uk/research/trends/125856-ordinary-clay-could-hold-the-key-to-future-carbon-capture.html>)
- *Ordinary clay can save the day*: R&D April 9 2015 (<http://www.rdmag.com/news/2015/04/ordinary-clay-can-save-day>); (e) Science News April 8 2015 (<http://esciencenews.com/articles/2015/04/08/ordinary.clay.can.save.day>); Science Newline Nature&Earth April 8 2015 (<http://m.sciencenewline.com/news/2015040818190039>)
- *Clays could be used for inexpensive carbon capture*: gizmag April 10 2015 (<http://www.gizmag.com/clay-carbon-capture/36949/>)
- *A dirt cheap way of capturing CO2?*: Science|Business: Innovation intelligence and networking, April 8 2015 (<http://www.sciencebusiness.net/news/76985/A-dirt-cheap-way-of-capturing-CO2>)
- *Ordinary clay can save the day: Smectite proves as good as other materials for CO2 capture*: EurekAlert! April 8 2015 (http://www.eurekalert.org/pub_releases/2015-04/nuos-occ040815.php)
- *Ordinary clay can be used for carbon capture*: ScienceDaily April 8 2015 (<http://www.sciencedaily.com/releases/2015/04/150408090319.htm>)
- *Clay can be used for carbon capture*: phys.org April 8 2015 (<http://phys.org/news/2015-04-clay-carbon-capture.html>); AlphaGalileo April 8 2015 (<http://www.alphagalileo.org/ViewItem.aspx?ItemId=151475&CultureCode=en>); GEMINI, Science News from NTNU and Sintef April 8 2015 (<http://gemini.no/en/2015/04/clay-can-be-used-for-carbon-capture/>)
- *Leire kan brukes i karbonfangst*: forskning.no 21. mars 2015 (<http://forskning.no/miljo-klima-materialteknologi/2015/03/leire-kan-brukes-i-karbonfangst>)
- *Leire kan brukes i karbonfangst, Vanlig leire kan være like god som mer avanserte materialer for å fange CO2*, Dagens Næringsliv 21. mars 2015
- *Studier av myke materialer kan gi oss helt nye produkter*. Teknisk Ukeblad, 19.10.2014.
- *Kapsler gjør verden mykere*. forskning.no, 22.06.2014.
- *Stort norsk gjennombrudd innen ørsmå selvbyggende kapsler*. Teknisk Ukeblad, 27.05.2014
- *Small Capsules, big potential* in GEMINI, Science News from NTNU and Sintef June 2 2014: <http://gemini.no/en/2014/06/small-capsules-big-potential/>
- *Små kapsler med store ringvirkninger* i GEMINI, Forskningsnytt fra NTNU of Sintef, 26 mai 2014 <http://gemini.no/2014/05/sma-kapsler-med-store-ringvirkninger/>

- *Breakthrough method for making Janus or patchy capsules* May 23 2014:
ScienceDaily Featured Research from universities, journals, and other organizations:
<http://www.sciencedaily.com/releases/2014/05/140523145344.htm>
EurekAlert: http://www.eurekalert.org/pub_releases/2014-05/nuos-bmf052314.php
Physorg.com: <http://phys.org/news/2014-05-breakthrough-method-janus-patchy-capsules.html>
Daily News:
<http://www.dailynewsen.com/science/breakthrough-method-for-making-janus-or-patchy-capsules-h2501245.html>
Technobahn: <http://www.technobahn.com/articles/2014052320260022.html>
BioSpace: <http://www.biospace.com/News/breakthrough-method-for-making-janus-or-patchy/334892>
Bio-Medicine
<http://www.bio-medicine.org/biology-news-1/Breakthrough-method-for-making-Janus-or-patchy-capsules-35868-1/>
dreb Science <http://dreb.com.ng/breakthrough-method-for-making-janus-or-patchy-capsules/>
Medic Finder
<http://medifinder.wordpress.com/2014/05/23/breakthrough-method-for-making-janus-or-patchy-capsules/>
Veeoz <http://www.veeoz.com/news/OHD8Ju3.html>
- *Designer droplets with 'pupils' open a world of possibilities*, Phys.org July 5, 2013 (<http://phys.org/news/2013-07-droplets-pupils-world-possibilities.html>)
- *Designer droplets open new possibilities* Nanowerk July 6, 2013 (<http://www.nanowerk.com/news2/newsid=31199.php>)
- *Designer droplets with 'pupils' open a world of possibilities* EurekAlert! July 5, 2013 (http://www.eurekalert.org/pub_releases/2013-07/nuos-ddw070513.php)
- *Designer droplets open new possibilities* Science Daily July 5, 2013 (<http://www.sciencedaily.com>)
- *Designer dråper med pupiller*, Gemini.no July 2013: <http://gemini.no/2013/07/designer-draper-med-pupiller>
- Norwegian University of Science and Technology – NTNU: *Designer droplets open new possibilities*, July 2013, <http://www.ntnu.edu/news/2013-news/droplets>
- University of Amsterdam, Netherlands: News and Agenda: *Clay soil landslides cause greater damage after minor rainfall*, November 11, 2009
- Forskning.no April 13th 2009: *Leire i fritt fall*
- European Space Agency (ESA), January 12th 2009: *Four student teams selected to fly their theses!*
- European Space Agency (ESA) 2009 *Meet the teams 2009: Complex*
- Norwegian Space Centre, January 13th 2009: *Norwegian students become weightless*
- Norwegian Space Centre, November 11th 2009: *Spinnville studentmuligheter*
- Forskning.no April 6th 2007: *Nanoleire demper støt*
- Research Council of Norway NANOMAT news April 2007: *Norske leireforskere i teten*
- Research Council of Norway NANOMAT Newsletter May 2007: *Fra komplekse fenomener i leire til nanoteknologi*
- *Visste du at leire kan være viktig for nanoteknologi? (Did you know that clay can be important for nanotechnology?)* Jon Otto Fossum: Vitensenteret (Science museum), Trondheim, Norway, April 21 2007
- *Fysiske fenomener i leire (Physical Phenomena in Clays)* Jon Otto Fossum: Jærmuseet: Vitenfabrikken (Science museum), Sandnes Norway, November 10, 2006
- *Complexity: System and interplay in nature*, E.G. Flekkøy and J.O. Fossum, chapter in "Naturens kode" ("Nature's code"), E. Newt and G. Einevoll eds., Gyldendal-Norway (2005)
- *Fysiske fenomener i leire (Physical Phenomena in Clays)* talk given at The National Norwegian Broadcasting P2 Akademiet NRK February 2nd, 2000, at 1300 hours, You may hear the sound (in Norwegian only) by clicking <http://folk.ntnu.no/fossumj/P2Akademiet/Foredrag.mp3>