IFAC 50\textsuperscript{th} Anniversary Celebration

International Conference on Present and Future of Automatic Control

Heidelberg
15th September 2006
50th IFAC-Anniversary:
International Conference on Present and Future of Automatic Control
Heidelberg, Germany, 15th September 2006
Stadthalle - Townhall
IFAC 50th Anniversary Celebration

Germany: Heidelberg
September 15, 2006

• Task force „IFAC 50“: Projects
  Chair: Steve Kahne, USA

• International Program Committee:
  Celebration event
  Chair: Rolf Isermann, Germany

Organisation:
VDI/VDE-Gesellschaft Mess- und Automatisierungstechnik (GMA)

www.vdi.de/ifac50
Sponsored by: IFAC-Council
IFAC-Technical Board
IFAC-Executive Board

Organized by: VDI/VDE-Gesellschaft Mess- und Automatisierungstechnik and
Task Force IFAC 50:
Stephen Kahne, (US), Chair
Tibor Vámos (HU)
Janos Gertler (US)
Rolf Isermann (DE)
Wook Kwon (KR)
Sirkka Jämsä-Jounela (FI)
Lubo Vlacic (AU)

IPC:
Rolf Isermann (DE), Chair
Stephen Kahne (US)
Wook Kwon (KR)
Mike Masten (US)
Peter Fleming (UK)
Vladimir Kucera (CZ)

NOC:
Dieter Westerkamp (DE)

Scope:
To celebrate the IFAC 50th anniversary a special event is planned for Sep. 15, 2006 in Heidelberg, where IFAC was conceived during the "Internationale Fachtagung Regelungstechnik" in 1956. It will take place in conjunction with the 4th IFAC Symposium on Mechatronics (Sep. 12 - 14, 2006). The event includes presentations on the past, with particular emphasis on the present and the future of automatic control in general, both from the theoretical and the application's side as well as focusing on emerging areas. A panel discussion is planned to complement the lecture series, followed by a banquet (by invitation). A special task force prepares several projects to document IFAC's history and to find funds for young people from IFAC countries. The activities will be available in the World Wide Web.
OPENING ADDRESS

1. On the foundation of IFAC
2. Earlier IFAC Anniversaries
3. IFAC 50 Program
1. On the foundation of IFAC

- **Conference „Regelungstechnik – Moderne Theorien und ihre Verwendbarkeit“**
  25 - 29 September 1956, University of Heidelberg, Neue Aula
  - organized by VDI/VDE-Fachgruppe Regelungstechnik
  - President: Otto Grebe, Secretary: Gerhart Ruppel
  - Conference chair: Rudolf Oetker
  - 932 participants
  - Proceedings: Editor: Gerd Müller, R. Oldenbourg-Verlag, 1957
Preparatory meetings for an international organization

- Situation:
  - First international conferences on Automatic Control in Cranfield (1951), New York (1953)
  - 1956: 8 national conferences in Europe! How to follow up?
- 27 Sep. 56: 1st Meeting, with Rufus Oldenbourger (US), Victor Broida (FR) and others, organized by G. Ruppel
  - R. Oldenbourger proposes an „International Federation on Automatic Control (IFAC)“
  - Nations are members (like United Nation)
  - Resolution: signed by 30 participants

- 28 Sep. 56: Foundation of a provisional committee: Broida (FR), Grebe (DE), Letov (USSR), Novacki (PL), Oldenbourger (US), Welbourn (UK), Ruppel (DE), Secretary

- 29 Sep. 56: Chair: V. Broida (4 languages), Discussions: Non-political, Languages?, Members?
• Preparatory meetings for an international organization (cont`d)

– 18, 19 Dec 56: Meeting of Europeans in Paris
  • Participants from FR, BE, NL, CH, DE
  • Financing, permanent secretariat, terminology

– 25 -27 Apr 57: Provisional Committee Meeting in Düsseldorf at VDI
  • Participants: Broida, Grebe, Letov, Novacki, Oldenbourger, Bamford, Ruppel, Müller
  • 2 proposals for constitutions from Broida, Oldenbourger: Vote for Oldenbourger`s Const.
  • Permanent Secretariat in Düsseldorf, General Secretary: G. Ruppel, Deputy Secretary: Liselotte Schröder, sponsored by VDI until 1975
  • 1st IFAC President: Harald Chestnut (US), 2nd President: A.M. Letov (USSR)
  • 1st IFAC-Congress in Moscow 1960
  • Official language: English

• Official constitutive meeting of IFAC
  – 11, 12 Sep in Paris:
    • All participating countries invited: 19 countries founded IFAC
    • Adoption of the Constitution and By-laws
Resolution for the foundation of IFAC, 27 Sep 1956

Die Unterzeichneten befürworten die Gründung eines internationa-
len Verbundes für Regelungstechnik und erklären sich bereit, sich
für diese Gründung in ihrem Heimatland einzusetzen. Der Verband
soll zum Ziel haben:

1. den Austausch von Informationen auf dem Gebiete
der Regelungstechnik zu erleichtern und dieses
Gebiet zu fördern.
2. internationale Kongresse für Regelungstechnik
in die Wege zu leiten.

Heidelberg, 27. September 1956

gez. Otto Grebs, Deutschland
gez. Rufus Oldenburger, United States
gez. A. Tustin, Great Britain
gez. J.F. Coales, Great Britain
gez. J.H. Westcott, Great Britain
gez. H. Märsendorfer, Oesterreich
gez. M. Mšsecrović, Jugoslawien
gez. J.H.T. Janssen, Netherlands
gez. Jens G. Selchen, Norwegen
gez. Jens R. Jensen, Danmark
gez. Gerd Müller, Deutschland
gez. P.J. Nowacki, Polska-Polen
gez. Heinrich Kindler, Deutschland
gez. H. Chestnut, USA

gez. Werner Pohlenz, Deutschland
gez. G. Evangelisti, Italien
gez. J. Beas-Foppen, Israel
gez. M. Ajnbinder, Belgique
gez. Ph. Paessau, Belgique
gez. Victor Brcida, France
gez. Paul Profos, Schweiz
gez. L.V. Hámcs, Schweden
gez. Stejlo, Vladimir, CSR
gez. Hanuš, Rožívoj, CSR
gez. A.M. Letov, USSR
gez. Kaisuke Izawa, Japan
gez. G. Ruppel, Deutschland

Briefe am das Vorläufige Sekretariat
sind zu richten an:
Letters to the Provisional
Secretary should be mailed to:

Kopie erbeten an:
Copy should be sent to:

VDI/VDE-P Fachgruppe
Regelungstechnik
Prinz-Georg-Str. 79
Düsseldorf

Prof. Dr. Rufus Oldenburger
Purdue University
Lafayette, Indiana, USA
RESOLUTION

The following undersigned are in favor of an international union of Automatic Control and are prepared to work toward this end in our own country. This union will have the following aims:

1. To facilitate the interchange of information in Automatic Control and to advance the field

2. To organize international congresses in Automatic Control.

Heidelberg, 27 Sep 1956

Signed:

Otto Grebe, FRG
Rufus Oldenbourger, USA
A. Tustin, Gt. Britain
H. Chestnut, USA
J.F. Coales, Gt. Britain
J.H. Westcott, Gt. Britain
H. Märzendörfer, Austria
M. Mesarovic, Yugoslavia
J.M.L. Janssen, Netherlands
Jens G. Balchen, Norway

Gerd Müller, FRG
P.J. Novacki, Poland
Heinrich Kindler, GDR
Rudolf Oetker, FRG
Werner Pohlenz, GDR
G. Evangelisti, Italy
J. Boas-Popper, Israel
M. Ajinbinder, Belgium
Ph. Passau, Belgium
Victor Broida, France

Paul Profos, Switzerland
L.V. Hamos, Sweden
Vladimir Strejc, CSSR
B. Hanus, CSSR
A.M. Letov, USSR
Keisuke Izawa, Japan
G. Ruppel, FRG
D.B. Welbourn, Gt. Britain
W.A. Ratscheev, USSR.
Jens R. Jensen, Denmark
Participants of the Provisional Committee, 24 – 27 April 1957 in Düsseldorf

From left to right: Ruppel (DE), Racejev (USSR), Nowacki (PL), Naumov (USSR), Oldenburger (US), Letov (USSR), Mrs. L. Schröder (DE), Müller (DE), Bamford (UK) (for Welbourn), Grebe (DE), Broida (FR)
G. Ruppel, IFAC Honorary Secretary 1957-1972, surrounded by Presidents: Coales, Gerecke, and Nowacki (Rome, 1959-03)

Mrs. L. Schröder, IFAC Deputy Secretary 1957-1975, on her way to an IFAC assignment (London Airport, 1975-01)
OPENING ADDRESS

1. On the foundation of IFAC

2. Earlier IFAC Anniversaries

3. IFAC 50 Program
2. Earlier IFAC Anniversaries

• 20th Anniversary publication
20 Years Old; 20 Years Young
An Anniversary Publication
1957—1977

IFAC
International Federation of Automatic Control

PERGAMON PRESS
2. Earlier IFAC Anniversaries

- **20th Anniversary publication**

- **25th Anniversary Day, 1 Oct 1962, Heidelberg**
IFAC

25th Anniversary Day
• IFAC Council Special Meeting
• International Colloquium

October 1, 1982

Heidelberg
Speakers
25th IFAC Anniversary
Heidelberg, 1 Oct. 1982
2. Earlier IFAC Anniversaries

• **20th Anniversary publication**

• **25th Anniversary Day, 1 Oct 1962, Heidelberg**

• **40th Anniversary Session, Fukuoka (JP), 8 July 1997**
  – In conjunction with the IFAC-Symposium on System Identification
  – Publication of talks: IFAC Newsletter June 1997
IFAC’s 40th Anniversary Session

Time: July 8, 7p.m. - 9p.m.
Place: Main Hall in the Kitakyushu International Conf.Center

Opening Remarks
Welcome Address
Giichi Sawaragi, General Chairman

"40 years of IFAC - past, present and future"
1. Stephen Kahne, IFAC Past
2. Yong Zai Lu, IFAC Present
3. Pedro Albertos, IFAC Future

"Control theory, Applications and Education"
4. Vladimir Kucera, Control Theory
5. Rolf Isermann, - 30min. Control Application
6. Walter Schaufelberger, Control Education

"Control technology in Japan"
Katsuhsa Furuta

Closing Remarks
Chairman Yong Zai Lu

This anniversary session is free and open to all.
We look forward to seeing you there.
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9:30 Opening Addresses
   Rolf Isermann, IPC-Chair
   Wook Hyun Kwon, IFAC President, Korea
   Dirk Abel, Vice-President VDI/VDE-GMA, Germany
   Raban van der Malsburg, Deputy Mayor of Heidelberg, Germany

10:00 IFAC and Its People
   Stephen Kahne, Embry-Riddle University, Prescott, USA, IFAC-President 1993-1996

10:45 BREAK

11:45 Present Developments in Control Theory
   Brian D.O. Anderson, Australian National University, Canberra, Australia
   IFAC-President 1991 – 1993
   CHAIR: Vladimir Kucera, Technical University Prague, IFAC-President 2002 -2005

12:00 Present Developments in Control Applications
   Karl Johann Åström, Lund University of Technology, Sweden
   CHAIR: Alberto Isidori, University La Sapienza, Rome, IFAC-President 2008-2011

12:45 – 14:15 LUNCH
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14:15 Industrial Automation: Situation and Trends
   Peter Terwiesch, Chief Technology Officer, ABB Asea Brown Boveri Ltd,
   Zürich, Switzerland
   CHAIR: Pedro Albertos, University of Valencia, Spain, IFAC-President, 2000 – 2002

15:00 Emerging Areas in Automatic Control and ist Role for Engineering
   Panel Discussion
   CHAIR: Sirkka-Liisa Jämsä-Jounela, Helsinki University of Technology, Finland, IFAC Technical Board Chair
   PANELISTS:

16:00 End of Anniversary Meeting

18:00 Walk to the Castle Cable Railway Station

18:45 Reception at Heidelberg Castle

19:30 Banquet

22:50 Surprises

23:15 Departure of Buses to the Hotels (Detour via Leinen: 30 min, Cable way is closed)
Outcomes of the IFAC 50 – Task force

Members: Steven Kahne (chair), Janos Gertler, Lubo Vlacic and others

• Goals:
  (1) Foundations for the future of IFAC
  (2) Attract young people for IFAC

• Projects:
  – Online resources in the control field:
    • edited by Lubo Vlacic, Griffith University, Brisbane, Australia and IFAC-Education Committee:
  – IFAC Control Archives: http://www.griffith.edu.au/centre/icsl/edcom/ifac50/
    • Animated Control Systems Tutorials
    • Control Education Web sites
    • Control Engineering Textbook Titles
    • Control Systems Applications
    • Control Theory – Timeline Data
    • History of Control – Timeline Data
    • Web based Control Experiments
Outcomes of the IFAC 50 – Task force

Projects (cont’d):

– Early control textbooks, edited by Janos Gertler, part of registration bag
– Funds for young people contributing to IFAC
– Documents of NMO’s histories (Italy, Southafrica, Slovenia, … )
– IFAC archive at Secretariat in Laxenburg (and online)
Distributed material for IFAC 50

• Book „Historic Control Textbooks“, Elsevier
  edited by Janos Gertler (IFAC 50 Taskforce)

• CD-ROM with presentation slides of this conference

• Journal „Automatisierungstechnik“, Special edition for IFAC 50
  – Contribution: „Great names and the early days of control in Germany“
    by Karl-Heinz Fasol (with assistance of others)

• Journal „atp-International“, a new IFAC affiliated Journal (Oldenbourg-Verlag)
    by Rudolf Lauber

• Postcard with special IFAC50-Stamp
  „edited“ by B. Aumann & E. Rudas, IFAC Secretariat, Laxenburg, AT,
  (gathered here, as stamp only valid in Austria !)
Schloss Heidelberg