

AGENDA for the 1st AIAA ICE PREDICTION WORKSHOP

Start	End	DAY 1 Monday - 7/26/2021	DAY 2 Tuesday - 7/27/2021	DAY 3 Wednesday - 7/28/2021	DAY 4 Thursday - 7/29/2021
		<i>Chair(s): Andy Broeren - NASA Glenn</i>	<i>Chair(s): Galdemir Botura - Collins Aerospace</i>	<i>Chair(s): Richard Hann - NTNU</i>	<i>Chair(s): Andy Broeren - NASA Glenn</i>
9:00	9:20	Session I: Opening Remarks	FAA Technical Center <i>Ezgi Oztekin</i> LEWICE LEWICE3D	Honeywell <i>Karthik Narayanasamy</i> FENSAP-ICE	Session VIII: Closing remarks
9:20	9:40		The French Aerospace Lab (ONERA) <i>Emmanuel Radenac</i> IGLOO	Austrian Institute of Technology GmbH (AIT) <i>Damiano Tormen</i> FENSAP-ICE ICEAC2D	
9:40	10:00		Italian Aerospace Research Centre (CIRA) <i>Francesco Capizzano</i> ZEN-IMP3D SIMBA-ICE	Norwegian Univ. of Science & Technology (NTNU) <i>Joachim Wallisch</i> FENSAP-ICE	
10:00	10:20		National Research Council Canada (NRC) <i>Krzysztof Szilder</i> NRC-MORPHO	Naval Air Systems Command (NAVAIR) <i>Eric Stewart</i> FENSAP-ICE	
10:20	10:40		Embraer <i>Rodrigo Hoffmann Domingos</i> AIPAC	Politecnico di Milano <i>Myles Morelli</i> POLIMICE	
10:40	11:00	AeroTex GmbH <i>Richard Moser</i> TAC3D+ ITA	University of Oxford <i>Xin Yang</i> ICICLE	Part 1 - Summary <i>Andy Broeren NASA Glenn Research Center</i>	
11:00	11:20	20 min break	20 min break	20 min break	ADJOURN
11:20	11:40	Session II: Participant presentations	NASA Glenn Research Center <i>William Wright</i> LEWICE GlennICE	Technische Universität Braunschweig <i>Denis Sotomayor Zakharov</i> DICEPS	Session VII: Group Discussion
11:40	12:00		Textron Aviation <i>Bryan Hinson</i> LEWICE LEWICE3D	Ecole Polytechnique Montreal <i>Simon Bourgault-Côté</i> CHAMPS	
12:00	12:20		Boeing Commercial Airplanes <i>Donald Cook</i> LEWICE LEWICE3D	Georgia Tech - NASA Glenn <i>Avani Gupta</i> GaTech In-House Tools	
12:20	13:00	Collection efficiency cases Drag coefficient, Eulerian/Lagrangian approaches, droplet distribution, shadow zones Moderator(s): <i>Karthik Narayanasamy - Honeywell</i>	2D cases Roughness, convective heat transfer, evaporative heat transfer, runback, water film formation, ice density, scale effects, case 242 Moderator(s): <i>Eric Laurendeau - Polytechnique Montreal</i>	3D cases Three-dimensionality, effect of sweep angle, 3D comparison metrics Moderator(s): <i>Richard Moser - AeroTex</i>	Part 2 - Future Work Experimental data requirements, areas of improvements for models/submodels, development of better "test to model comparison" parameters, future test cases <i>Eric Laurendeau - Ecole Polytechnique Montreal Alberto Pueyo - Bombardier</i>

All times listed are Eastern Daylight Time (EDT, GMT-4)

Last updated on July 20th, 2021

Participant Identification

Participant	ID
Boeing	01
NASA	03
ONERA	04
GeorgiaTech/NASA	05
Politecnico Di Milano	06
Textron	07
CIRA	08
Oxford	09
AIT	10
NTNU	11
NRC	12

Participant (cont'd)	ID
ANSYS-Bombardier	13
Embraer	14
Polytechnique Montreal	15
FAA	16
Honeywell	17
AeroTex GmbH	18
Siemens – Lockheed	19
Universität Braunschweig	20
ATS	21

Participant Information Summary

Code	Participant	Code	Dataset option
01.1	Boeing	LEWICE	
01.2	Boeing	LEWICE3D	
03.1	NASA	GlennICE	
03.2	NASA	LEWICE	
04.1	ONERA	IGLOO3D	
04.2	ONERA	IGLOO2D	
05.1	GeorgiaTech	ANSYS Fluent/GTDROP-Uns/GT-ICE	
06.1	PolitecnicoDiMilano	SU2/PoliDrop/PoliMIce	
07.1	Textron	USM3D/LEWICE/LEWICE3D	
08.1	CIRA	SIMBA	
08.2	CIRA	Multilce	
08.3	CIRA	ZEN-IMP3D	
08.4	CIRA	Open-Foam	
09.1	OxfordUniversity	Fluent/ICICLE-2D	No Particle Rotation
09.2	OxfordUniversity	Fluent/ICICLE-2D	With Particle Rotation
10.1	AIT	CFX/ICEAC2D	Experimental Tinf and LWC
10.2	AIT	CFX/ICEAC2D	Experimental Tinf-1 deg.
10.3	AIT	CFX/ICEAC2D	Tinf=266.05, LWC= 0.8

Participant Information Summary (cont'd)

Code	Participant	Code	Dataset option
10.4	AIT	CFX/ICEAC2D	Experimental Tinf-2 deg.
10.5	AIT	Fluent/FENSAP-ICE	Single size droplets
10.6	AIT	Fluent/FENSAP-ICE	7-bins droplet distribution
10.7	AIT	Fluent/FENSAP-ICE	Void density
11.1	NTNU	FENSAP-ICE	Single size droplets
11.2	NTNU	FENSAP-ICE	Droplet size distribution
12.1	NRC	Cobalt	
13.1	Anslys-Bombardier	FENSAP-ICE	Constant Ice Density
13.2	Anslys-Bombardier	FENSAP-ICE	Variable Ice Density
14.1	Embraer	CFD++/AIPAC	
15.1	PolyMtl	CHAMPS	2D/3D
15.2	PolyMtl	CHAMPS	2.5D
16.1	FAA Tech Center	LEWICE / LEWICE3D	
17.1	Honeywell	FENSAP-ICE	
19.1	Siemens – Lockheed	Simcenter STAR-CCM+	
20.1	Universitat Braunschweig	DICEPS-V3.0/FLUENT	Single size droplets
20.2	Universitat Braunschweig	DICEPS-V3.0/FLUENT	Droplet size distribution
21.1	ATS	Metacomp CFD++	