

SARC activities

TOMAS GRÖNSTEDT

SARC – What's up

High time
to register



SARC – the Swedish Aerospace Research Center

Encouraging national coordination and alignment of academic research in aerospace

Event	Date and Time	Flags
SARC Annual Meeting	November 13, 2020, 09:00-12:00	Swedish flag
SARC-BARINet Workshop	November 12, 2020, 13:00-17:00 November 13, 2020, 13:00-16:00	Swedish and Brazilian flags

29/10/2020

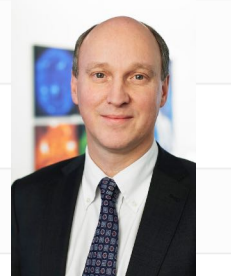
Preliminary programme for SARC Annual Meeting, Nov. 13, 2020

09:00-09:15	Welcome & Opening <i>Tomas Grönstedt (SARC Director)</i>	
09:15-09:45	LTU/KTH Aerospace research & experiences from research school <i>Marta-Lena Antti, LTU</i> <i>Fredrik Lundell, KTH</i>	
09:45-09:50	Short break	
09:50-10:00	SARC.academy: What's up? <i>Ardeshir Hanifi, KTH</i>	
10:00-10:20	Presentation of pilot projects <i>Alejandro Sobrón Rueda, LIU</i>	
10:20-10:40	Clean Sky 3 – aerospace research <i>Fredrik Wallin, GKN</i>	
10:40-11:00	Coffee	
11:00-11:20	Aerodynamic computations at SAAB <i>Peter Eliasson, Saab</i>	
11:20-11:40	An overview of research on production technology at University West <i>Joel Andersson, University West</i>	
11:40-12:00	Discussion and Closing	

Marta-Lena Antti, LTU



Fredrik Lundell, KTH



Olle Norberg, LTU

SARC annual meeting



SARC
Annual Meeting
November 13, 2020, 09:00-12:00



Preliminary programme for SRAC-BARINet Workshop

DAY 1 – November 12, 2020

13h00 – 13h15 (9h00 – 9h15 BR) Workshop Opening (BARINET, SARC, CISB)

Session A – Low Emission (Fernando Catalano and Tomas Grönstedt)

9h15 – 9h30 (13h15 – 13h30 BR) – Keynote speaker Bruno Silva ICAO Environmental actions

13h30 – 13h45 (9h30 – 9h45 BR) – 3 PhD/MSc pitch presentations

3h45 – 13h55 (9h45 – 9h55 BR) – Round table discussion

13h55 – 14h10 (9h55 – 10h10 BR) – 3 PhD/MSc pitch presentations

13h10 – 14h20 (10h10 – 10h20 BR) – Round table discussion

14h20 – 14h35 (10h20 – 10h35 BR) – Break (with SME pitches)

Session B – Aerospace Systems (Petter Krus and Victor De Negri)

14h35 – 14h50 (10h35 – 10h50 BR) – Keynote speaker

114h50 – 15h15 (10h50 – 11h15 BR) – 5 PhD/MSc pitch presentations

15h15 – 15h30 (11h15 – 11h30 BR) – Round table discussion

15h30 – 15h35 (11h30 – 11h45 BR) – Break (with SME pitches)

Session C – Systems Engineering (Emilia Villani and Ingo Staack)

15h45 – 16h00 (11h45 – 12h00 BR) – Keynote speaker

16h00 – 16h15 (12h00 – 12h15 BR) – 3 PhD/MSc pitch presentations

16h15 – 16h15 (12h15 – 12h25 BR) – Round table discussion

16h25 – 16h40 (12h25 – 12h40 BR) – 3 PhD/MSc pitch presentations

16h40 – 16h50 (12h40 – 12h50 BR) – Round table discussion

DAY 2 – November 13, 2020

Session D – Subscale testing and UAS (Roberto Gil and David Lundström)

13h00 – 13h15 (9h00 – 9h15 BR) – Keynote speaker

13h15 – 13h25 (9h15 – 9h25 BR) – 2 PhD/MSc pitch presentations

13h25 – 13h35 (9h25 – 9h35 BR) – Round table discussion

13h35 – 13h50 (9h35 – 9h50 BR) – 3 PhD/MSc pitch presentations

13h50 – 14h00 (9h50 – 10h00 BR) – Round table discussion

14h00 – 14h10 (10h00 – 10h10 BR) – Break

Session E – Universities pitches and discussions

14h10 – 14h30 (10h10 – 10h30 BR) – Round table discussion

14h30 – 14h40 (10h30 – 10h40 BR) – Break

Session F – Small satellites (René Laufer and Renato Borges)

14h45 – 15h00 (10h45 – 11h00 BR) – Keynote speaker

15h00 – 15h15 (11h00 – 11h15 BR) – 3 PhD/MSc pitch presentations

15h15 – 15h25 (11h15 – 11h25 BR) – Round table discussion

15h25 – 15h40 (11h25 – 11h40 BR) – 3 PhD/MSc pitch presentations

15h40 – 115h50 (11h40 – 11h50 BR) – Round table discussion

15h50 – 16h00 (11h50 – 12h00 BR) Workshop Closing (BARINET and SARC)

SARC BARINet workshop



29/10/2020



Meeting Registration

3rd ECATS conference

Making aviation environmentally sustainable

Tomas Grönstedt, conference chair



- 110 – 140 unique participants per day

CHALMERS
UNIVERSITY OF TECHNOLOGY

li.u LINKÖPINGS
UNIVERSITET



KUNGL
TEKNISKA
HÖGSKOLAN

LULEÅ
UNIVERSITY
OF TECHNOLOGY

Making aviation environmentally sustainable

Keynotes

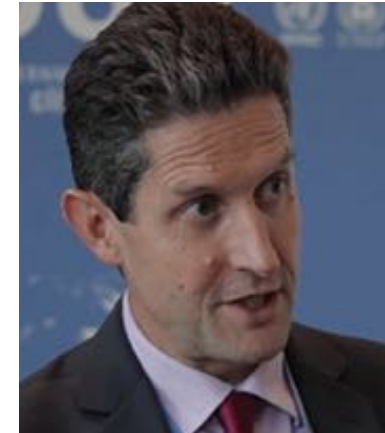
Henri Werij

Dean Aerospace Engineering
TU Delft



Myles Allen

Professor of Geosystem Science
Oxford University, UK



Rickard Nordin

Member of Swedish Parliament
Energy/Climate spokesperson
Centerparty



Daniel S. Jacob

Emissions Division
Office of Environment and Energy
FAA, USA



Conference pitch

- Good mix of Swedish and international research related to aviation & environment
- Propulsion integration
 - Academia & GKN Aerospace
- Future materials
 - Academia & SAAB
- Forward looking event on cryogenic fuels / electro fuels
- MDPI Aerospace special edition
 - Book of abstracts

29/10/2020

DN Debatt

DN Debatt. "Vätgas är flygets framtid – nu måste Sverige satsa"



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1 As a whole, please rank the technical content of conference

1.1 Conference sessions



Multi answer: Percentage of respondents who selected each answer option (e.g. 100% would represent that all this question's respondents chose that option)

SARC young researchers award



- Fundamental flight technologies **v,v,v,v**
- Intelligent systems **v,v**
- Propulsion **v,v,v**
- Integrated structures **v,v,v**
- System capabilities and concept studies **v,v,v,v**

Several other young Swedish researchers as part of the regular program.

Steffen Hammer



Valentin Vikhorev



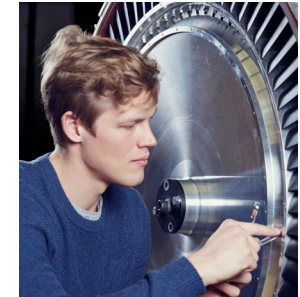
Sneha Goel



Ludvik Knöös Franzen



Isak Jonsson



Marily Thoma



Prabhat Khanal



Daniel Sabel

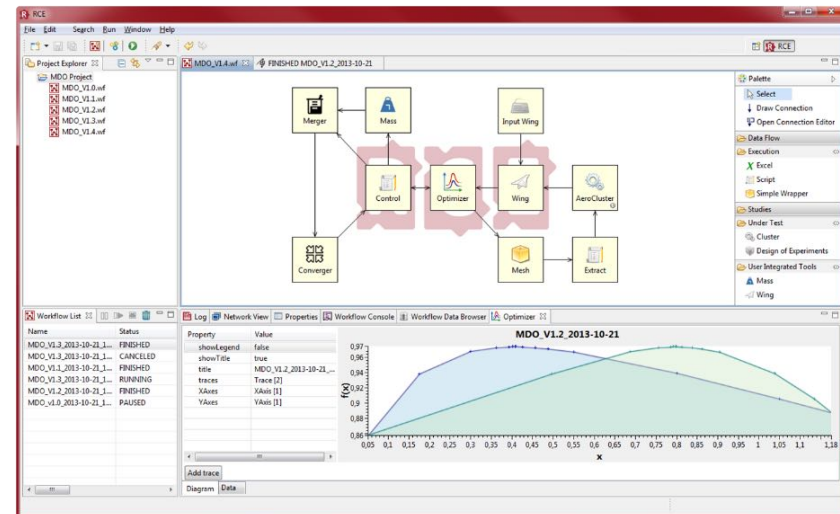


Collaborative project

- Conceptual aircraft design
 - Initial design in Brazil (Isak J.)
- Laminar wings (KTH) (Luca V.)
- System assessment (LiU) (Alexandro S.)
- Transition to open source software simulation platform
 - RCE (Remote Component Environment) is an Open Source distributed, workflow-driven integration environment
 - Way to network for aerospace universities?



RCE





Thank you.

sarc.center



2021