

12th International Conference on Compressors and their Systems

Date: Monday, 06/Sept/2021

9:00am -	Keynote Day 1: Sustainability & the compressor industry Location: B103			
10:00am	Chair: Prof. Ahmed Kovacevic Co-Chair: Thibault Tam			
10:05am -	Sponsor Presentation 1A: Holroyd Location: B103		Sponsor Presentations 1B: Howden Location: B104	
10:35am	Co-Chair: Ivona Ivkovic-Kihic		Co-Chair: Thibault Tam	
11:30am -	P1: Poster session Location: Poster presentation room			
12:00pm				
12:10pm -	Opening: Opening session from the president of City, University of London Location: B103			
12:40pm	Chair: Prof. Ahmed Kovacevic Co-Chair: Thibault Tam			
12:45pm -	A1: Screw Compressors 1 Location: B103	B1: Scroll compressors Location: B104	C1: Reciprocating Compressors & Valves Location: BG02	D1: Turbomachinery Location: BLG07
2:15pm	Chair: Prof. Ahmed Kovacevic Co-Chair: Dr. Thibaud Plantegenet	Chair: Prof. Craig Bradshaw Co-Chair: Yang Lu	Chair: Prof. Ian M Arbon Co-Chair: Brijeshkumar Patel	Chair: Dr. Hamid Hazby Co-Chair: Aleksander Krupa
2:25pm -	Panel 1: Sustainability in compressor industry Location: B103			
3:25pm	Chair: Prof. Ian M Arbon Co-Chair: Thibault Tam			
3:35pm -	Repeated Keynote Day 1: Keynote: Sustainability & the compressor industry Location: B103			
4:35pm	Chair: Prof. Ahmed Kovacevic Co-Chair: Thibault Tam			

Date: Tuesday, 07/Sept/2021

9:00am -	Keynotes Day 2: Heat pumps Location: B103			
10:00am	Chair: Dr. Matthew Read Co-Chair: Thibault Tam			
10:05am -	Sponsor Presentation 3A: Fetu Location: B103		Sponsor Presentations 2B: PDM Analysis Location: B104	
10:35am	Co-Chair: Thibault Tam		Co-Chair: Ivona Ivkovic-Kihic	
11:30am -	P2: Poster session Location: Poster presentation room			
12:00pm				
11:45am -	OC: Organising Committee Meeting Location: Meeting Room 1			
12:30pm				
12:00pm -	Industry talks 2: Materials and Lubrication Location: B103			
12:45pm	Chair: Dr. Lee Hill Co-Chair: Thibault Tam			
12:50pm -	A2: Screw Compressors 2 Location: B103	B2: Vane Machines Location: B104	C2: Measurement & Instrumentation / System Control Location: BG02	D2: Modelling and Simulation Location: BLG07
2:20pm	Chair: Dr. Matthew Read Co-Chair: Dr. Thibaud Plantegenet	Chair: Dr. Giuseppe Bianchi Co-Chair: Yang Lu	Chair: Dr. William James Milligan Co-Chair: Brijeshkumar Patel	Chair: Dr. Sham Rane Co-Chair: Aleksander Krupa
2:30pm -	Panel 2: Energy sustainability - Heat pumps and airconditioning Location: B103			
3:30pm	Chair: Dr. Andy Pearson Co-Chair: Thibault Tam			
3:40pm -	Repeated Keynote Day 2: Keynotes by Dr. Andy Pearson and Prof. R.Z. Wang Location: B103			
4:40pm	Chair: Dr. Matthew Read Co-Chair: Thibault Tam			
4:40pm -	Live Demo: Live Demonstration of SCORG and GT-Suite simulation software Location: B103			
5:40pm	Chair: Jonathan Harrison Co-Chair: Prof. Ahmed Kovacevic This session is arranged for live demonstration of SCORG and GT-Suite simulation software and their integration with emphasis on new features including optimisation of screw compressors			

Date: Wednesday, 08/Sept/2021

9:30am - 10:00am	Keynote Day 3: Compressors and Industrial Digitisation Location: B103 Chair: Dr. Sham Rane Co-Chair: Thibault Tam			
10:05am - 10:35am	Sponsor Presentations 2A: GT-SUITE Simulation Software Location: B103 Co-Chair: Ivona Ivkovic-Kihic		Sponsor Presentations 3B: Megger Location: B104 Co-Chair: Thibault Tam	
12:00pm - 12:45pm	Industry talks 3: Screw compressor rotors - Designers and Engineers Location: B103 Chair: Prof. Nikola Stosic Co-Chair: Thibault Tam			
12:50pm - 2:20pm	A3: Other Machines & Technical Development Location: B103 Chair: Prof. Kim Tiow Ooi Co-Chair: Dr. Thibaud Plantegenet	B3: Compressor Systems Location: B104 Chair: Prof. Roberto Cipollone Co-Chair: Yang Lu	C3: Novel Compressors & Applications Location: BG02 Chair: Dr. Davide Ziviani Co-Chair: Brijeshkumar Patel	D3: Optimisation of Compressors, Expanders and Systems Location: BLG07 Chair: Dr. Guido Marseglia Co-Chair: Aleksander Krupa
2:30pm - 3:30pm	Closing session: Engineer in society, Student Prize Awards, Closing remarks Location: B103 Chair: Dr. Matthew Read Co-Chair: Thibault Tam			
3:40pm - 4:10pm	Repeated Keynote Day 3: Keynote: Compressor and Industrial Digitisation Location: B103 Chair: Dr. Sham Rane Co-Chair: Thibault Tam			

Date: Thursday, 09/Sept/2021

4:00am - 4:15am	GA-1: Welcome and Introduction - Group A Location: B103 Chair: Dr. Sham Rane	
4:15am - 5:30am	GA-S1: Introduction to CFD analysis in positive displacement machines using FVM Location: B103 Chair: Dr. Sham Rane	
5:30am - 5:45am	GA-Break	
5:45am - 7:15am	GA-S2: CFD and Grid generation for Screw Machines Location: B103 Chair: Dr. Sham Rane	
7:15am - 7:30am	GA-Break	
7:30am - 9:00am	GA-S3: Developments in Numerical Aspects and Modelling Location: B103 Chair: Dr. Sham Rane	
9:00am - 9:15am	GB-1: Welcome and Introduction - Group B Location: B104 Chair: Prof. Ahmed Kovacevic	
9:15am - 10:00am	GA-S3-3: Developments in Numerical Aspects and Modelling Location: B103 Chair: Yang Lu	GB-S1: Introduction to CFD analysis in positive displacement machines using FVM Location: B104 Chair: Prof. Ahmed Kovacevic
10:00am - 10:30am	GA-2: Q&A - Group A Location: B103 Chair: Dr. Sham Rane	GB-S1 continuation: Introduction to CFD analysis in positive displacement machines using FVM Location: B104 Chair: Prof. Ahmed Kovacevic
10:30am - 10:45am	GB-Break	
10:30am - 11:00am	GA-2 continuation: Q&A - Group A Location: B103 Chair: Dr. Sham Rane	
10:45am - 12:15pm	GB-S2: CFD and Grid generation for Screw Machines Location: B104 Chair: Yang Lu	
12:15pm 12:30pm	GB-Break	
12:30pm - 1:15pm	GB-S3: Developments in Numerical Aspects and Modelling Location: B104 Chair: Dr. Sham Rane	
1:15pm 1:30pm	GB-Break	
1:30pm - 3:00pm	GB-S3-2: Developments in Numerical Aspects and Modelling Location: B104 Chair: Dr. Sham Rane	
3:00pm - 4:00pm	GB-2: Q&A - Group B Location: B104 Chair: Dr. Sham Rane	
4:00pm - 4:15pm	GC-1: Welcome and Introduction - Group C Location: B104 Chair: Prof. Ahmed Kovacevic	
4:15pm - 5:30pm	GC-S1: Introduction to CFD analysis in positive displacement machines using FVM Location: B104 Chair: Dr. Sham Rane	
5:30pm - 5:45pm	GC-Break	
5:45pm - 7:15pm	GC-S2: CFD and Grid generation for Screw Machines Location: B104 Chair: Yang Lu	
7:15pm - 7:30pm	GC-Break	
7:30pm - 9:45pm	GC-S3: Developments in Numerical Aspects and Modelling Location: B104 Chair: Dr. Sham Rane	
9:45pm - 10:15pm	GC-2: Q&A - Group C Location: B104 Chair: Dr. Sham Rane	

Date: Friday, 10/Sept/2021

4:00am - 4:15am	GA-3: Introduction Day 2 - Group A Location: B103 Chair: Dr. Sham Rane	
4:15am - 5:30am	GA-S4: OpenFOAM CFD solver for Large Deformation FSI Location: B103 Chair: Dr. Sham Rane	
5:30am - 5:45am	GA-Break	
5:45am - 6:30am	GA-S5: Modelling of Vane Machines Location: B103 Chair: Dr. Sham Rane	
6:30am - 8:00am	GA-S6: Modelling flows in rotary machines - Industrial Applications Location: B103 Chair: Dr. Sham Rane Co-Chair: Yang Lu	
8:00am - 9:00am	GA-GB-1: Forum/Panel Q&A - Group A & B - Day 2 Location: B104 Chair: Prof. Ahmed Kovacevic	
9:15am - 10:30am	GA-S7: Advanced topics related to CFD analysis Location: B103 Chair: Dr. Sham Rane Co-Chair: Brijeshkumar Patel	GB-S4: OpenFOAM CFD solver for Large Deformation FSI Location: B104 Chair: Prof. Ahmed Kovacevic
10:30am - 10:45am	GA-S7 continuation: Advanced topics related to CFD analysis Location: B103 Chair: Dr. Sham Rane Co-Chair: Brijeshkumar Patel	GB-Break
10:45am - 11:30am	GB-S5: Modelling of Vane Machines Location: B104 Chair: Dr. Sham Rane	
11:30am - 11:45am	GB-Break	
11:45am - 1:15pm	GB-S6: Modeling flows in rotary machines - Industrial Applications Location: B104 Chair: Dr. Sham Rane	
1:15pm - 2:15pm	GB-Break	
2:15pm - 3:00pm	GB-S7: Advanced topics related to CFD analysis Location: B104 Chair: Yang Lu	
3:00pm - 4:00pm	GB-GC-1: Forum/Panel Q&A - Group B & C - Day 2 Location: B104 Chair: Prof. Ahmed Kovacevic	
4:15pm - 5:00pm	GB-S7-2: Advanced topics related to CFD analysis Location: B103 Chair: Brijeshkumar Patel	GC-S4: OpenFOAM CFD solver for Large Deformation FSI Location: B104 Chair: Prof. Ahmed Kovacevic
5:00pm - 5:30pm	GC-S4 continuation: OpenFOAM CFD solver for Large Deformation FSI Location: B104 Chair: Prof. Ahmed Kovacevic	
5:30pm - 5:45pm	GC-Break	
5:45pm - 6:30pm	GC-S5: Modelling of Vane Machines Location: B104 Chair: Dr. Sham Rane	
6:30pm - 6:45pm	GC-Break	
6:45pm - 8:15pm	GC-S6: Modelling flows in rotary machines - Industrial Applications Location: B104 Chair: Dr. Sham Rane	
8:15pm - 8:30pm	GC-Break	
8:30pm - 10:00pm	GC-S7: Advanced topics related to CFD analysis Location: B104 Chair: Dr. Sham Rane	
10:00pm - 10:15pm	Short Course Closure Location: B104 Chair: Dr. Sham Rane	