

MATHEMATICS IN INDUSTRY STUDY GROUP 2023

Monday 16 January to Friday 20 January 2023

PROGRAMME

Monday 16 January 2023

7:30 – 8:15	Breakfast
8:15 – 8:30	Registration Loading presentations
8:30 – 9:00	Chairperson: David Mason Official Opening and Welcome Welcome address: Professor Ulrich Paquet, Director, African Institute for Mathematical Sciences
9:00 – 10:30	Chairperson: David Mason
9:00 – 9:30	Jon Esteves: Opti-Num Solutions Computational Tools to Accelerate your Workflow
9:30 – 12:30	Problem Presentations Each Industry Representative has available 30 minutes including questions
9:30 – 10:00	<ul style="list-style-type: none">• Precious Shabalala: Tourist attractions capping visitor numbers
10:00 – 10:30	<ul style="list-style-type: none">• Richard Loubser: Sugar factory control strategy
10:30 – 11:00	Morning Tea
11:00 – 14:00	Chairperson: Neville Fowkes
11:00 – 11:30	<ul style="list-style-type: none">• Alba Cabrera-Codony: Energy management optimization for water distribution networks
11:30 – 12:00	<ul style="list-style-type: none">• Tim Myers: Adsorption of multiple contaminants from a fluid stream
12:00 – 12:30	<ul style="list-style-type: none">• Branden Ingram: Modelling and Optimization in the Robo Cup domain
12:30 – 13:00	Lunch
13:30 – 14:00	<ul style="list-style-type: none">• John Atherfold: Temperature modelling in a furnace
14:00 – 14:30	Formation of Study Groups Room allocation
14:30 – 15:30	Study Group meetings
15:30 – 16:00	Afternoon Tea
16:00 – 18:00	Study Group Meetings

18:00 – 18:30	Dinner
19:00 – 22:00	Voluntary Study Group Meetings

Tuesday 17 January 2023

7:30 – 8:15	Breakfast
8:30 – 10:30	Study Group meetings
10:30 – 11:00	Morning Tea
11:00 – 12:30	Study Group meetings
12:30 – 13:00	Lunch
13:30 – 15:30	Study Group meetings
15:30 – 16:00	Afternoon Tea
16:00 – 16:30	Study Group meetings
16:30 – 18:00	Progress Reports Chairperson: Tim Myers Each Study Group has 15 minutes to present progress on their problem Presentations made by Student Moderators
18:00 – 18:30	Dinner
19:00 – 22:00	Voluntary Study Group meetings

Wednesday 18 January 2023

7:30 – 8:15	Breakfast
8:30 – 10:30	Study Group meetings
10:30 – 11:00	Morning Tea
11:00 – 12:30	Study Group meetings
12:30 – 13:00	Lunch
13:30 – 15:30	Study Group meetings
15:30 – 16:00	Afternoon Tea
16:00 – 16:30	Study Group meetings
16:30 – 18:00	Progress Reports Chairperson: Masood Khaliq Each Study Group has 15 minutes to present progress made during Wednesday on their problem. Presentations by students moderators.
16:00 – 16:30	Study Group meetings
18:00 – 18:30	Dinner
19:00 – 22:00	Voluntary Study Group meetings

Thursday 19 January 2023

7:30 – 8:15	Breakfast
8:30 – 10:30	Study Group meetings
10:30 – 11:00	Morning Tea
11:00 – 12:30	Study Group meetings
12:30 – 13:00	Lunch
13:00 – 15:30	Study Group Meetings
15:30 – 16:00	Afternoon Tea
16:00 – 18:00	Study Group meetings Preparation for Friday presentations Preparation of brief texted reports
18:00 – 18:30	Dinner
19:00 – 22:00	Voluntary Study Group meetings

Friday 20 January 2023

7:30 – 8:15	Breakfast
8:30 – 12:00	Report back session to Industry Moderators report on progress and recommendations (25 minutes) Industry representatives have 5 minutes to comment on progress
8:30 – 10:30	Chairperson: Grame Hocking
8:30 – 9:00	<ul style="list-style-type: none"> • Tourist attractions capping visitor numbers
9:00 – 9:30	<ul style="list-style-type: none"> • Sugar factory control strategy
9:30 – 10:00	<ul style="list-style-type: none"> • Energy management optimization for water distribution networks
10:00 – 10:30	<ul style="list-style-type: none"> • Adsorption of multiple contaminants from a fluid stream
10:30 – 11:00	Morning tea
11:00 – 11:30	<ul style="list-style-type: none"> • Modelling and optimization in the Robo Cup domain
11:30 – 12:00	<ul style="list-style-type: none"> • Temperature modelling in a furnace
12:00 – 12:30	Chairperson: David Mason Closing Ceremony “Aimless award” Closing remarks Ulrich Paquet
12:30 – 13:00	Lunch
14:00	Prepare for departure