

MATHEMATICS IN INDUSTRY STUDY GORUP 2020

Monday 13 January to Friday 17 January 2020

PROGRAMME

Monday 13 January 2020

7:00 – 8:00	Breakfast
8:30 – 8:45	Board shuttle bus to University of Zululand
9:00 – 9:30	Registration Loading presentations
9:30 – 9:45	Chairperson: David Mason <ul style="list-style-type: none">• Syamala Krishnannair Official Opening and Welcome Welcome address: Professor Kunene Dean of Science University of Zululand
9:45 – 13:00 9:45 – 11:30	Problem Presentations Chairperson: Neville Fowkes Each Industry Representative has available 30 minutes including questions <ul style="list-style-type: none">• Jennifer Fitchett: Models for honeybee arrival and blossom phenology• Denis Ndanguza: Modelling the turbulent flow in Lake Kivu• Richard Loubser: Juice holdup detection in a sugar cane diffuser• Richard Loubser: Image analysis of sugar cane preparation
11:30 – 11:45	Morning Tea
11:45 – 13:00	Chairperson: Graeme Hocking <ul style="list-style-type: none">• Anne Fitchett and Gideon Fareo: Green roofs to mitigate the Urban Heat Island• Thama Duba: Chessboard waves• Montaz Ali: Optimization problem
13:00 – 14:00	Lunch hour
14:00 – 14:30	Formation of Study Groups Room allocation
14:30 – 16:00	Study Group meetings
16:00 – 16:30	Afternoon Tea
16:30 – 18:00	Study Group Meetings
18:00 – 19:00	Dinner hour
19:30	Shuttle bus departs for Mtunzini
	Free evening

Tuesday 14 January 2020

7:00 – 8:00	Breakfast
8:30 – 8:45	Board shuttle bus to University of Zululand
9:30 – 11:00	Study Group meetings
11:00 – 11:30	Morning Tea
11:30 – 13:00	Study Group meetings
13:00 – 14:00	Lunch hour
14:00 – 16:00	Study Group meetings
16:00 – 16:30	Afternoon Tea
16:30 – 18:00	Progress Reports Chairperson: Tim Myers Each Study Group has 10 minutes to present progress on their problem Presentations made by Student Moderators
18:00 – 19:00	Dinner hour
19:30	Shuttle bus departs for Mtunzini
	Free evening

Wednesday 15 January 2020

7:00 – 8:00	Breakfast
8:30 – 8:45	Board shuttle bus to University of Zululand
9:30 – 11:00	Study Group meetings
11:00 – 11:30	Morning Tea
11:30 – 13:00	Study Group meetings
13:00 – 14:00	Lunch hour
14:00 – 16:00	Study Group meetings
16:00 – 16:30	Afternoon Tea
16:30 – 18:00	Progress Reports Chairperson: Stephen Wilson Each Study Group has 10 minutes to present progress made during Wednesday on their problem. Presentations by students moderators.
18:00 – 19:00	Dinner hour
19:30	Shuttle bus departs for Mtunzini
	Free evening

Thursday 16 January 2020

7:00 – 8:00	Breakfast
8:30 – 8:45	Board shuttle bus to University of Zululand

9:30 – 11:00	Study Group meetings
11:00 – 11:30	Morning Tea
11:30 – 13:00	Study Group meetings
13:00 – 14:00	Lunch hour
14:00 – 16:00	Study Group Meetings
16:00 – 16:30	Afternoon Tea
16:30 – 18:00	Study Group meetings Preparation for Friday presentations Preparation of brief texted reports
18:00 – 19:00	Dinner hour
19:30	Shuttle bus departs for Mtunzini
There are no Progress Presentations on Thursday evening	

Friday 17 January 2020

7:00 – 8:00	Breakfast
8:30 – 8:45	Board shuttle bus to University of Zululand
9:30 – 12:45	Report back session to Industry Moderators report on progress and recommendations (25 minutes) Industry representatives have 5 minutes to comment on progress
9:30–11:00	Chairperson: Montaz Ali <ul style="list-style-type: none"> • Models for honeybee arrival and blossom phenology • Modelling the turbulent flow in Lake Kivu • Juice holdup detection in a sugar cane diffuser • Image analysis of sugar cane preparation
11:00–11:15	Morning tea
11:15–12:45	Chairperson: Masood Khalique <ul style="list-style-type: none"> • Green roofs to mitigate the Urban Heat Island • Chessboard problem waves • Optimization problem
12:45 – 13:00	Chairperson: David Mason <ul style="list-style-type: none"> • Awards • Syamala Krishnannair Vote of Thanks Dr Matadi Head Department of Mathematical Sciences University of Zululand
13:00 – 14:00	Lunch hour
14:30	Airport transfer for a few staff who have made special arrangements
15:00	Shuttle bus departs for Mtunzini