College of Science, Engineering and Technology

Programme for Symposium on the Application of Finite Elements in Physics and Engineering

Date: 11 - 14 October 2016 **Venue:** Unisa Science Campus

Thamsanqa Kambule Auditorium

- **Time:** 08h15 16h00
- **RSVP:** Ms Thabiso Legong
- Email: legonta@unisa.ac.za
- **Tel:** 012 429 8045

Define tomorrow.



Tuesday, 11 October – Opening: Thamsanqa Kambule Auditorium

Time	Activity	Speaker	Title
08:15	Registration and Coffee		
08:45	Welcome	Director	
09:00	Talk	M Braun	Setting the Scene
09:30	Talk	W Bangerth	Introduction to the method of finite elements for novices Part I
10:30	Coffee Break		
11:00	Talk		Introduction Part II
12:00		Lunch	
13:00	Talk	D Kolb	Using FEM in molecular physics
14:00	Talk	L Drescher & K Schmidt	Mortar FEM Calculations for molecules using DFT
15:00	Coffee		

Wednesday, 12 October – 5th Floor, GJ Gerwel Building

Time	Activity	Speaker	Title
08:30		Coffee	
09:00	Talk	L Korous	The finite element library Hermes2D
10:00	Talk	W Bangerth	The finite element library deal.ll
11:00		Coffee Break	
11:30	Talk	SW Funke	The finite element environment FEniCS
12:30		Lunch	
13:30	Talk	C Geuzaine	GMSH, a free and powerful mesh generator
14:30	Talk	M Braun	Molecular Multi Domain Muffin Tin
			Finite element Calculations
15:30	Coffee		
18:00 - 19:30	Cocktail Function		

Define tomorrow.



Thursday, 13 October – 5th Floor, GJ Gerwel Building

Time	Activity	Speaker	Title
08:30	Coffee		
09:00	Talk	K Schmidt	The finite element library concepts
10:00	Talk	SW Funke	Dolfin-adjoint + FEniCS = Efficient Optimization
11:00	Coffee Break		
11:30	Talk	P Karban	Agros2D: FEM for Electrical Engineering
12:30	Lunch		
13:30	Talk	P Lukas	Python + FEniCS
14:30	Tutorial	P Lukas	Hands on with FEniCS
16:00		Coffee	

Friday, 14 October – 5th Floor, GJ Gerwel Building

Time	Activity	Speaker	Title
08:30	Coffee		
09:00	Tutorial	W Bangerth	Hands on with deal.ll
10:30	Coffee Break		
11:00	Tutorial	L Korous	Hands on with Hermes2D
12:30	Lunch		
13:30	Tutorial	K Schmidt	Hands on with concepts
14:30	Symposium Closing and Information about Proceedings	M Braun	
15:00	Coffee		

Define tomorrow.

