



**Inaugural Lecture: Professor Timo Betcke
'Modern Software Approaches for Computational Engineering'**

Speaker: Professor Timo Betcke, UCL

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Date and Time: Wednesday 18th March 2020 at 4pm

Venue: Room 505, Mathematics Department

Title: Modern Software Approaches for Computational Engineering

Abstract

The last few years have seen a tremendous hardware shift to highly parallel and heterogeneous computing environments.

The challenge is to create the software infrastructure that allows users to take advantage of this raw computing power. In this talk we demonstrate and discuss some recent software technologies for heterogeneous CPU and GPU computing, and show at the example of our own Bempp software library how it can be effectively utilised to solve a range of complex computational engineering problems across acoustics, electromagnetics, and other application areas.

The talk will incorporate a number of live software demonstrations and conclude with an outlook on ongoing research projects.

Details

Celebrating the Inaugural Lecture of Professor Timo Betcke in Room 505, Mathematics Department

Programme:

- 4:00 Introduction to Proceedings, Professor Ivan Parkin, Executive Dean, Mathematical and Physical Sciences Faculty (MAPS), UCL
- 4:10 Inaugural Lecture by Professor Timo Betcke – 'Modern Software Approaches for Computational Engineering'
Lecture is chaired by Professor Ivan Parkin, Executive Dean, Mathematical and Physical Sciences Faculty (MAPS), UCL and introduced by Professor Helen Wilson, Head of Department of Mathematics. Professor Helen Wilson will be giving the vote of thanks.
- 5:00 Reception in Room 502

Link: <http://iris.ucl.ac.uk/iris/browse/profile?upi=TBETC52>