

1 DRAC

1 Day Research meeting on Advanced Ceramics
Spring meeting
Friday 7th April, G20, Royal School of Mines, Imperial College London

10:00 **Registration and coffee**
10:20 **Welcome by Dr Luc Vandeperre, Imperial College London**

Invited speaker

10:30 **Transmission electron microscopy for advanced ceramics**
Na Ni, Research Fellow, Department of Materials, Imperial College London

UK heat of ECerS Student Speech Contest

11:00 Yumeng Chen, Loughborough University
11:20 Min Yu, Queen Mary University of London
11:40 Helen Pratt, Oxford University
12:00 Chang Shu, University of Birmingham

12:20 **Lunch**

Contributions from industry and academia

13:20 **Thermal Barrier Coatings,**
Matthew Appleton, Rolls-Royce Surface Engineering

13:40 **Cermets for Fusion Applications**
Sam Humphrey-Baker & W.E. Lee, Department of Materials, Imperial College London

14:00 **Ceramic cores for Turbine Blades,**
Mirna Bechelany, Safran

14:20 **Metal ions doping in bioceramics for antibacterial applications,**
Maqbool Muhammad^{1,2}, Mark Cresswell², Phil Jackson², Aldo R Boccaccini¹
¹Institute of Biomaterials, University of Erlangen-Nuremberg, ²Lucideon Ltd.

14:40 **Modelling sintering using molecular dynamics and discrete element method**
Anas Alshammery and Jingzhe Pan, Department of Engineering, University of Leicester

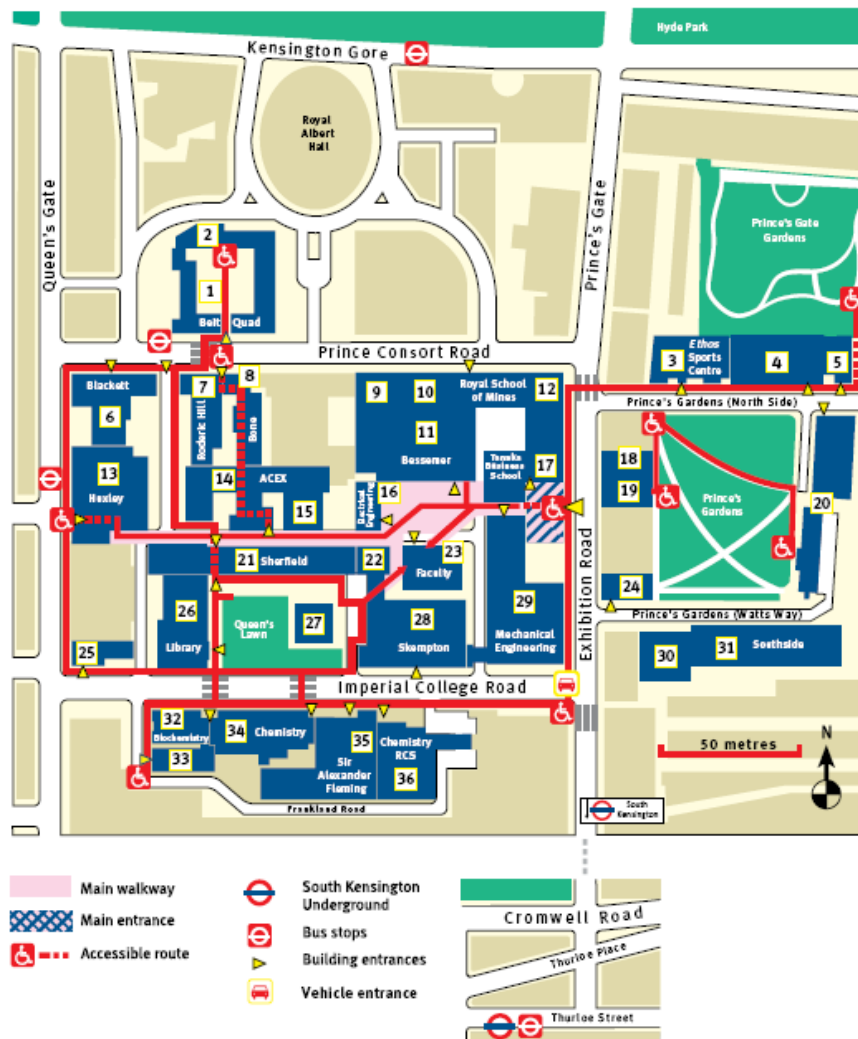
15:00 **Electric Field-Induced Strain in High Temperature Piezoceramics**
Yizhe Li & David Hall, School of Materials, University of Manchester

15:20 **Concluding remarks and announcement of the winner of the speech competition**

Registration fee £10 as a contribution towards the cost of lunch and coffee
Please register at <http://www.imperial.ac.uk/structural-ceramics/1-drac/>

How to find us

The Department of Materials is in the Royal School of Mines (between numbers 10 and 12 on the map below). Please use the Prince Consort Road entrance for easy access to the Department.



Travel information

On foot -From South Kensington station follow the subway signposted to the museums.

By bus -9 Aldwych - Hammersmith Broadway, alight at the Royal Albert Hall

10 Kings Cross Station - Hammersmith Broadway, alight at the Royal Albert Hall

52 Victoria Bus Station - Willesden Bus Garage, alight at the Royal Albert Hall

360 Elephant and Castle Station - Prince Consort Rd, alight at Prince Consort Rd

14 Tottenham Court Road - Putney Heath, alight at South Kensington Station

49 Battersea Rise - Shepherd's Bush Grn, alight at South Kensington Station

70 Acton - South Kensington Station, alight at South Kensington Station

74 Baker Street Station - Putney, alight at South Kensington Station

345 Peckham Bus Station - South Kensington Station, alight at South Kensington Station

414 Maida Vale - Putney Bridge, alight at South Kensington Station

By car - Car parking at the South Kensington campus is severely restricted and you are advised NOT to bring a car.