

# ZERNIKE INSTITUTE COLLOQUIUM 2014/2015

8 October 2014	George Sawatzky Department of Physics and Astronomy University of British Columbia Vancouver, Canada	The explicit role of O 2p states in high oxidation state transition metal oxides
6 November 2014	Roderick Lim Biozentrum and the Swiss Nanoscience Institute University of Basel Basel, Switzerland	Nanobiophysics of the Nuclear Pore Complex
4 December 2014	Jeroen van den Brink Institute for Theoretical Solid State Physics Leibniz Institute for Solid State and Materials Research Dresden Dresden, Germany	Spin-orbital separation in the quasi-one- dimensional Mott insulator Sr <sub>2</sub> CuO <sub>3</sub>
8 January 2015	Nai Phuan Ong Department of Physics Princeton University Princeton, NJ, USA	Transport experiments on two Dirac semimetals, 3D versions of graphene with protected nodes
5 February 2015	Gabriel Aeppli Department of Synchrotron Radiation and Nanotechnology Paul Scherrer Institute (PSI) Villigen, Switzerland	Silicon in the 21 <sup>st</sup> century
5 March 2015	Stephan Förster Universität Bayreuth Physical Chemistry 1 Bayreuth, Germany	Polymer Quasicrystals and Archimedean Tilings
2 April 2015	Caroline Ross Department of Materials Science and Engineering Massachusetts Institute of Technology Cambridge, MA, USA	Templated self-assembly of Block Copolymers and Multiferroic Oxide Nanocomposites
7 May 2015	Vahid Sandoghdar Max Planck Institute for the Science of Light Erlangen, Germany	On phase and interference: ultrasensitive detection of single biomolecules and quantum
4 June 2015	Henry Chapman Center for Free-Electron Laser Science Deutsches Elektronen- Synchrotron (DESY) Hamburg, Germany	Protein structure and dynamics using X- ray free-electron laser pulses