

**Program of SRCD2009, 04/06-04/09, 2009**

Updated on 03/31

**04/06**

18:30, Welcome Reception/Registration

**04/07**

**09:30-09:50, opening ceremony**

introduction/welcome, Dr. Ye Tao, SRCD09 Organiser

Prof. Xiaoming Jiang, Deputy Director of IHEP

Prof. DingChang Xian

Prof. Bonnie Wallace, SRCD09 Co-organiser

09:50-10:00, photograph

**Keynote lectures**

10:00-10:40, SRCD Spectroscopy and Structural Biology, B.A.Wallace, University of London

Coffee break

11:00-11:40, Time-resolved circular dichroism: Application to the study of conformational changes in photochemical and photobiological processes, Francois Hache, CNRS

Lunch

**SRCD Beamlines: Designs and Features (Part 1) (Invited talks, 20 min talk including questions and comments]**

Chair Liangbin Li

13:00-13:20, Update on Diamond SRCD beamline B23, Giuliano Siligardi, Diamond synchrotron

13:20-13:40, Recent Progress of VUVCD Spectroscopy at HiSOR, Kunihiko Gekko, Hiroshima Synchrotron Radiation Center

13:40-14:00, SRCD on DISCO from bending magnet to protein structure, Frank Wien, SOLEIL synchrotron

14:00-14:20, SRCD at BSRF, Ye. Tao, BSRF

14:20-14:40, coffee break

**SRCD Beamlines: Designs and Features (Part 2)**

Chair Kunihiko Gekko

14:40-15:00, Switching Undulator Beamlines dedicated to Circular Dichroism Measurement at TERAS and SPring-8, K. Nakagawa, Kobe University

15:00-15:20, The VUV circular dichroism station in Hefei light source, Liangbin Li, NSRL synchrotron

15:20-15:40, The current status of SRCD project at NSRRC, H.S. Fung, NSRRC synchrotron

15:40-16:00, Summing Spectra to Study Protein:Protein Interaction, Nathan Cowieson, Monash Centre for Synchrotron Science

16:00-16:20 Coffee break

### **Applications of SRCD in Biology and Chemistry (Part 1) [20 min talk including questions and comments]**

Chair Frank Wien

16:20-16:40, Thermal Studies by SRCD, Robert Janes, University of London

16:40-17:00, Secondary structure of non-native proteins characterized by VUVCD spectroscopy, Koichi Matsuo, HiSoR

### **Dinner**

**04/08**

### **Applications of SRCD in Biology and Chemistry (Part 1) continued**

Chair Giuliano Siligardi

08:30-08:50, SRCD studies of a membrane-active peptide from the Angiotensin 1A G protein-coupled receptor, Leonard Pattenden, RMIT University

08:50-09:10, SRCD studies of molecular interactions between DNA and single wall carbon nanotube, Xue-Yun Gao, IHEP

09:10-09:30, Investigation of the Radiation Mechanism of Chiral Influence, German Gusev, Lebedev Physical Institute

09:30-09:50, The Protein Circular Dichroism Data Bank (PCDDDB), Lee Whitmore, University of London

09:50-10:10 coffee break

### **Applications of SRCD in Biology and Chemistry (Part 2)**

Chair Robert Janes

10:10-10:30, Ligand interactions: Challenges ahead using SRCD, Rohanah Hussain, Diamond synchrotron

10:30-10:50, SRCD studies of a gout-related synthetase, Honglin Liu, University of Science and Technology of China

10:50-11:10, Using Solid-State Circular Dichroism to Characterize the Secondary Structural Formation of Protein Amyloids, Hong-Yu Hu, Institute of Biochemistry and Cell Biology

11:10-11:30, Measurement and Manipulation of Circular Dichroism of Amino Acid Films

with Undulator Synchrotron Radiation in VUV and SX Energy Regions, K. Nakagawa,  
Kobe University

Lunch

**13:00-16:30, SRCD Round Table Discussions**

Chair, B.A. Wallace

SRCD Round table discussions

Part 1 Technical issues

- Beamline design comparisons
- Standards, Calibrations and Cross-Calibrations: methods and results
- Data collection procedures
- Radiation (denaturation) damage

14:20-14:35 coffee break

Part 2 Outreach/Coordinated Activities

- Data format standardization
- Data analysis software
- PCDDDB depositions/mirror sites
- Sample cells
- Access mechanisms
- Joint Funding possibilities
- Future meetings

16:10 Summing up of Round table discussions (B.A. Wallace)

16:20 Summing up of the Meeting (Ye Tao)

**18:30, Banquet**

**04/09**

09:00: Visit BSRF

Afternoon, Great wall tour.