DRAFT SCHEDULE
World Molecular Engineering Network Nineteenth Annual Meeting on Structural Biology
4-8 May 2008, San Jose del Cabo, Baja, Mexico

Sunday Evening, 4 May

17:00 – 17:15   Andrej Sali and Ian Wilson   **Introduction and Welcome**

17:15- 20:00   **Self-Introductions by Non-Presenting Sponsors**

Hans Parge	Pfizer
Daniel Santi	Kosan/UCSF
Sammy Farah	Versant Ventures
Heather Preston	TPG

Short Presentations (5 min.) by TSRI and UCSF Graduate Students, Postdoctoral Fellows *et al.*

Abram Calderon	UCSF	Using structure-based drug design to direct NMR screening of an RNA target
Ranyee Chiang	UCSF	Evolutionarily conserved substrate substructures for automated annotation of enzyme superfamilies
David Eramian	UCSF	TSVMod: Prediction of the absolute accuracy of protein models
Franz Gruswitz	UCSF	Conduction through the ammonia channels- faculty talk??
Kathryn Ivanetich	CSU Chico	Quantification of human-derived fecal *Enterocci* in environmental waters
Sriram Sankararaman	UCB	Predicting catalytic and specificity residues in proteins
Dennis Wolan	UCSF	Small molecule activators of the executioner caspases
Fumiaki Yumoto	UCSF	Critical nuclear receptor in ES cell
	Break	
Katy Barglow	TSRI	Activity-based proteomic and structural analysis of the nitrilase family of enzymes
Russell Burge	TSRI	Interaction of the double-stranded RNA-binding zinc finger protein JAZ with the adenoviral VA1 RNA
Graham Johnson	TSRI	Automated visualization of subcellular environments
Donald Kerkow	TSRI	A novel RNA-binding domain I the nuclear export factor (NXF) family
Chris Kimberlin	TSRI	Structural studies of Ebola virus VP35
Gabriel Lander	TSRI	A look at bacteriophage evolution via high-throughput automated cryoEM
Anke Mulder	TSRI	Biding of kinesin 13 heads to curved microtubule protofilaments
Peter Smith	TSRI	Genetic SAR: a new method for identifying critical enzyme/inhibitor interactions.
Megan Thielges	TSRI	Exploring the energy landscape of antibody-antigen complexes: Protein dynamics, flexibility, and molecular recognition
Theresa Tiefenbrunn	TSRI	Structural investigations of synthetic antiangiogenic thrombospondin type 1 repeat analogs
Andrew Ward	TSRI	ABC transporters and novel detergents
Craig Yoshioka	TSRI	Visualizing ribosome assembly

20:00– 21:00   **Reception**   **Poolside**

Monday Morning, 5 May   **Advances in Proteomics   (Chair: Robert Stroud, UCSF)**

09:00	Ian Wilson	TSRI	The Expanding Protein Universe
09:20	Andrej Sali	UCSF	Integrative methods for protein structure determination
09:40	Kimmen Sjolander	UC Berkeley	New methods for enzyme active site prediction
10:00	**Break**		
10:30	Ray Stevens	TSRI	GPCR structure and implications for drug discovery
10:50	Andrew Krutchinsky	UCSF	Studying dynamics of protein assemblies in cells with fluorescence microscopy
11:10	Peter Kuhn	TSRI	Circulating tumor cells in cancer management – from bedside to bench and back

Monday Afternoon   **Immunology and Virology   (Chair: Mark Yeager, TSRI)**

16:30	Carlos Barbas	TSRI	Chemically programmed immunity
16:50	Jim Paulson	TSRI	Targeting B cells
17:10	Tobin Dickenson	TSRI	Applying phage escape technology to high throughput screening and the modeling of viral evolution
17:30	B. Matija Peterlin	UCSF	Host cellular complexes on HIV regulatory and accessory proteins
17:50	**Break**		

SPONSORS I – Advances in Technology for Structural Biology (Chair:Robert Fletterick, UCSF)

18:20	Andy May	Fluidigm	Diffraction-capable microfluidic crystallization chips for screening and structure determination
18:40	Roger Darst	Bruker	X-ray source and detector technologies for micron-sized crystals

Tuesday Morning, 6 May   **SPONSORS II –   (Chair: Dan Santi, Kosan/UCSF)**

09:00	Todd Appleby	Gilead Sciences	Introduction to Gilead Sciences
09:20	Michal Vieth	Eli Lilly	Kinase bioprints-prospective modeling of kinase selectivity
09:40	Sherry LaPorte	Rinat/Pfizer	Snapshots of the IL-4 Receptor Ternary Complexes: An Opportunity to Visualize the Basis of Cytokine Receptor Pleiotropy in the Immune System
10:00	**Break**		
10:30	Joseph Ferrara	Rigaku	Advances in X-ray instrumentation for the home lab
10:50	**Panel Discussion**		*Panel Leaders: Andrej Sali, Dan Santi, Ray Stevens, Sammy Farah, Hans Parge*
			Title: Building a Business in Biotech: What it Takes to Launch, Fund, and Grow a Successful Company

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Tuesday Afternoon   **Nucleic Acids ,Proteins & Enzymes : Ray Stevens , TSRI)**

16:30	Joel Gottesfeld	TSRI	Chromatin therapeutics for neurological diseases
16:50	David Millar	TSRI	Nucleic Acid – protein interactions at the single-molecule level
17:10	Jamie Williamson	TSRI	Dynamics of the ribosomal proteome
17:30	**Break**		
18:00	Tom James	UCSF	Molecular Recognition Entailing RNA: Induced Fit Virtual Screening to Find Small Molecule Ligands
18:20	Robert Fletterick	UCSF	Androgen receptor antagonists
18:40	Marc Shuman	UCSF	A bilingual approach to research

Wednesday Morning, 7 May   **Assemblies, Computation, and Chemistry   (Chair: Kimmen Sjolander, UCB)**

08:30	Yeager, Mark	TSRI	Structural biology of retrovirus assembly
08:50	C. David Stout	TSRI	Crystal structure of a mitochondrial membrane protein: Vitamin D specific cytochrome P450 CYP24A1
09:10	Robert Stroud	UCSF	Gas Channels
09:30	**Break**		
10:00	Floyd Romesberg	TSRI	Efforts to expand the genetic alphabet
10:20	Todd Yeates	UCLA	Ideas for designing topologically interesting protein polymers
10:40	Art Olson	TSRI	Extending applications of automated docking
11:00	**Closing Remarks**	Ian Wilson, Andrej Sali	