

|       | October 10  | October 11   |  |                                 |   | October 12  |                                   |  |  |
|-------|---|--|--|---------------------------------|---|---|-----------------------------------|--|--|
|       | Opening Day   | Session A  | Session B                                      | Session C                       | Session D   | Session A   | Session B                         | Session C                                    | Session D  |
| 8:30  | Welcome   | Foundations and Frontiers  | Building, Designing, and Learning from Genomes | Interface with Chemical Systems | Standardization of Parts I - Descriptions and Sharing | Industrial Biotechnology  | Legal Schemes and Rights          | Global Education and Outreach                | Computer Aided Design  |
| 9:00  | iGEM 2007 Redux                                     |  |  |                                 |   |   |                                   |  |  |
| 9:30  |   |  |  |                                 |   |   |                                   |  |  |
| 10:00 | Tea Break   | Tea Break  |  |                                 |   | Tea Break   |                                   |  |  |
| 10:30 | Synthetic Constructions                             | Molecular Parts Design   | Cellular Manufacturing                         | Global Social Impact            | Standardization of Parts II - Measurements            | Medical Applications  | Computer Aided Design             | Engineering Principles for Parts and Devices | Emergence of Professional Organizations                                |
| 11:00 |   |  |  |                                 |   |   |                                   |  |  |
| 11:30 |   |  |  |                                 |   |   |                                   |  |  |
| 12:00 | Lunch   | Group Photo / Lunch / Commercialization of Genetic Parts (Session D) |  |                                 |   | Lunch / In Vitro Synthetic Biology: Molecular Programming (Session D) |                                   |  |  |
| 2:00  | Synthetic Biology Programs & Applications           | Biomass to Liquid Fuels  | Genetic Circuit Design                         | Biosecurity                     | Synthetic Biology and the Pharmaceutical Industry     | Harnessing and Evolving Microbes                                      | Microfluidics and Biomicrosystems | Standards and Technical Workshop             | Genome Engineering Futures and the Role of the Synthetic Biologist     |
| 2:30  |   |  |  |                                 |   |   |                                   |  |  |
| 3:00  |   |  |  |                                 |   |   |                                   |  |  |
| 3:30  | Tea Break Poster Session I                          | Tea Break / Poster Session II  |  |                                 |   | Tea Break   |                                   |  |  |
| 4:00  |   | Synthetic Biology and Infectious Disease                             | Selected Presentations I                       | Mathematical Modeling           | Synthetic Plant Biology                               | Agriculture and Plant Genetic Engineering                             | Selected Presentations II         | Investment in Synthetic Biology              | Towards a Consensus Paper Guiding the Development of Synthetic Biology |
| 4:30  |   |  |  |                                 |   |   |                                   |  |  |
| 5:00  | Synthetic Biology: A Political & Economic Framework |  |  |                                 |   |   |                                   |  |  |
| 5:30  |   | Announcement of Poster Awards  |  |                                 |   |   |                                   |  |  |
| 6:00  | Open Reception                                      | Conference Banquet (7:30pm)  |  |                                 |   | Closing Remarks   |                                   |  |  |

Opening Day – Citigroup Lecture Theater (LTA)  
 Session A – Citigroup Lecture Theater (LTA)  
 Session B – Lam Woo Lecture Theater (LTB)  
 Session C – Cheung On Tak Lecture Theater (LTE)  
 Session D – Chow Tak Sin Lecture Theater (LTG)

friday, october 10

**Citigroup Lecture Theater (LTA, E, F)**

**Welcome**

8:30 – 9:00am BioBricks Foundation SB4.0 Organizers (Drew Endy, Chris Voigt, Pam Silver, Lauren Ha)  
 I-Ming Hsing Hong Kong University of Science and Technology  
 Roland Chin Vice President for Academic Affairs, Hong Kong University of Science and Technology  
 Regis Kelly Institute for Quantitative Biosciences (QB3)

**iGEM 2007 Redux** (Chair: Wendall Lim, UCSF)

9:00 – 9:30am Peking University iGEM team *Xili Liu and Chunbo Lou* A Push-ON Push-OFF Genetic Circuit (sponsored by Ceyuan Ventures)  
 9:30 – 10:00am UCSF iGEM team *Alex Ng* A Synthetic Yeast Organelle (sponsored by GeneArt)

10:00 – 10:30am Tea Break (Outside LTA)

**Synthetic Constructions** (Chair: Hamilton Smith, Nobel Laureate, J. Craig Venter Institute)

10:30 – 11:00am Clyde Hutchison J. Craig Venter Institute Genome Construction  
 11:00 – 11:30am Daphne Preuss University of Chicago Synthetic Plant Chromosomes  
 11:30 – 12:00pm Kristala Prather MIT Rational Design of Microbial Chemical Factories

12:00 – 2:00pm Lunch (LG7 Canteen)

**Synthetic Biology Programs & Applications** (Chair: Pamela Silver, Harvard University)

2:00 – 2:30pm Ron Weiss Princeton University The iGEM Undergraduate Competition  
 2:30 – 3:00pm Jian Xu Qingdao Institute Biofuels in China  
 3:00 – 3:30pm Zach Serber Amyris Biotechnologies Artemisinin and BioFuel Production

3:30 – 5:15pm Tea Break / Poster Session I (Outside LTA/Area K)

**Synthetic Biology: A Political and Economic Framework** (Chairs: Regis Kelly, QB3 / I-Ming Hsing, HKUST)

5:15 – 5:30pm John Tsang Financial Secretary, Government of Hong Kong SAR China  
 5:30 – 5:45pm David Grewal Harvard University  
 5:45 – 6:00pm John S. Wadsworth, Jr. Morgan Stanley

6:00pm Open Reception (Courtyard outside LTA)

saturday, october II

**SESSION A – Citigroup Lecture Theater (LTA)**

**Foundations and Frontiers** (Chair: Hamilton Smith, J. Craig Venter Institute)

|                 |                               |                         |  |
|-----------------|-------------------------------|-------------------------|--|
| 8:30 – 9:00am   | Waclaw Syzbalski              | University of Wisconsin | Special Lecture: History of Synthetic Biology                      |
| 9:00 – 9:30am   | Drew Endy                     | Stanford University     | Building a BioFAB  |
| 9:30 – 10:00am  | King Chow                     | HKUST                   | The Capture of Randomness: the Making of a Biological Slot Machine |
| 10:00 – 10:30am | Tea Break (Outside LTA, B, E) |                         |  |

**Molecular Parts Design** (Chair: Luhua Lai, Peking University)

|                 |                            |                   |   |
|-----------------|----------------------------|-------------------|---|
| 10:30 – 11:00am | Luhua Lai                  | Peking University | Computational Design of Protein Structure and Function      |
| 11:00 – 11:30am | Tanja Kortemme             | UCSF              | Computational Design of Signaling Partners                  |
| 11:30 – 12:00pm | Christina Smolke           | Caltech           | Programming RNA: Information Processing and Control Devices |
| 12:00pm         | Group Photo - HKUST Atrium |                   |   |
| 12:00 – 2:00pm  | Lunch (LG7 Canteen)        |                   |   |

**Biomass to Liquid Fuels** (Chair: Karl Handelsman, CMEA Ventures)

|               |  |                        |   |
|---------------|--|------------------------|---|
| 2:00 – 2:30pm | James Liao   | UCLA                   | Synthesis of Branched-Chain Higher Alcohols as Biofuels             |
| 2:30 – 3:00pm | Christopher Voigt  | UCSF                   | Bio-MeX: A Novel Route from Biomass to Gasoline                     |
| 3:00 – 3:30pm | Xiaoxia (Nina) Lin   | University of Michigan | Towards Efficient Production of Next-Generation Cellulosic Biofuels |
| 3:30 – 4:00pm | Jay Keasling   | UC Berkeley/LBNL       | Application of Synthetic Biology to Cellulose Degradation           |
| 4:00 – 4:30pm | Tea Break / Poster Session II (Outside LTA, B, E / Area K) |                        |   |

**Synthetic Biology and Infectious Disease** (Chair: Wendell Lim, UCSF)

|               |               |                              |  |
|---------------|---------------|------------------------------|--|
| 4:30 – 5:00pm | Eckard Wimmer | Stony Brook University       | Whole Viral Genome Synthesis in Synthetic Biology    |
| 5:00 – 5:30pm | Ralph Baric   | University of North Carolina | Synthetic Genomics of SARS                           |
| 5:30 – 6:00pm | Malik Peiris  | University of Hong Kong      | Confronting Avian Flu: The Role of Synthetic Biology |

7:30pm Conference Banquet (Hong Kong International Trade & Exhibition Centre - Shuttles from HKUST depart at 6:30pm)

# saturday, october II

## SESSION B – Lam Woo Lecture Theater (LTB)

### Building, Designing, and Learning from Genomes (Chair: Ron Weiss, Princeton University)

|                 |                               |                 |   |
|-----------------|-------------------------------|-----------------|---|
| 8:30 – 9:00am   | Mitsuhiro Itaya               | Keio University | Building Genomes in the Bacillus subtilis Genome Vector   |
| 9:00 – 9:30am   | Jeffrey Wong                  | HKUST           | Synthetic Genetic Codes   |
| 9:30 – 10:00am  | Mukund Thattai                | NCBS, India     | Bacterial Polyketide Synthases: Standards, Modularity, and Abstraction in a Rapidly Evolving Natural System |
| 10:00 – 10:30am | Tea Break (Outside LTA, B, E) |                 |   |

### Cellular Manufacturing (Chair: Christopher Voigt, UCSF)

|                 |                            |              |   |
|-----------------|----------------------------|--------------|---|
| 10:30 – 11:00am | Sang Yup Lee               | KAIST, Korea | Systems Metabolic Engineering of Microorganisms: Towards Genome-Scale Synthetic Biology |
| 11:00 – 11:30am | Merja Penttilä             | VTT, Finland | Industrial Optimization of Yeast  |
| 11:30 – 12:00pm | Wan-Keung Wong             | HKUST        | Cosmetic Production in Escherichia coli   |
| 12:00pm         | Group Photo - HKUST Atrium |              |   |
| 12:00 – 2:00pm  | Lunch (LG7 Canteen)        |              |   |

### Genetic Circuit Design (Chair: Christina Smolke, Caltech)

|               |  |                    |   |
|---------------|--|--------------------|---|
| 2:00 – 2:30pm | Tetsuya Yomo   | Osaka University   | Adaptive Response of Genetic Switch: Fitness-Induced Attractor Selection        |
| 2:30 – 3:00pm | Ying-jin Yuan  | Tianjin University | Programmed Bacterial Symbiosis  |
| 3:00 – 3:30pm | Pamela Silver  | Harvard University | Can We Build Biological Systems in Mammalian Cells with Predictable Properties? |
| 3:30 – 4:30pm | Tea Break / Poster Session II (Outside LTA, B, E / Area K) |                    |   |

### Selected Presentations I (Chair: Pamela Silver, Harvard University)

|               |   |                      |  |
|---------------|---|----------------------|--|
| 4:30 – 4:50pm | Julius Lucks  | UC Berkeley          | Engineering an Antisense-RNA-Mediated Transcription Control System   |
| 4:50 – 5:10pm | Ju Young Lee  | KAIST, Korea         | Engineering Transcription Circuits to Elicit New Phenotypes in Escherichia coli  |
| 5:10 – 5:30pm | Priscilla Purnick   | Princeton University | A Synthetic Multistep Autoregulated Differentiation Pathway from Embryonic Stem Cells to Insulin-Producing Beta-like Cells |
| 5:30 – 5:50pm | Xuan Hui Xie  | HKUST                | Self-Sustainable Biosolar Cells Based on Bacterial Photosynthesis and Respiration  |
| 7:30pm        | Conference Banquet (Hong Kong International Trade & Exhibition Centre - Shuttles from HKUST depart at 6:30pm) |                      |  |

saturday, october II

**SESSION C – Cheung On Tak Lecture Theater (LTE)**

**Interface with Chemical Systems** (Chair: Hiroki Ueda, RIKEN)

|                |                       |                        |
|----------------|-----------------------|------------------------|
| 8:30 – 9:00am  | Caroline Ajo-Franklin | LBNL                   |
| 9:00 – 9:30am  | Pier Luigi Luisi      | University of Roma Tre |
| 9:30 – 10:00am | Erik Winfree          | Caltech                |

Engineering Living Systems for Nanotechnology  
 Chemical Synthetic Biology  
 Exploring Evolution with DNA Tile-Based Crystals

10:00 – 10:30am Tea Break (Outside LTA, B, E)

**Global Social Impact** (Chair: Pat Mooney, The ETC Group)

|                 |                 |                     |
|-----------------|-----------------|---------------------|
| 10:30 – 12:00pm | Jim Thomas      | The ETC Group       |
|                 | Elenita Dano    | Third World Network |
|                 | Camila Moreno   | Terra de Dreitos    |
|                 | Jennifer Corpuz | Tebtebba Foundation |

Questioning the Syndustry and the Sugar Economy

12:00pm Group Photo - HKUST Atrium  
 12:00 – 2:00pm Lunch (LG7 Canteen)

**Biosecurity** (Chair: Drew Endy, Stanford University)

|               |                |                                 |
|---------------|----------------|---------------------------------|
| 2:00 – 3:30pm | Peer Stähler   | IASB                            |
|               | Piers Millet   | United Nations, Geneva          |
|               | Ben Petro      | U.S. Dept. of Homeland Security |
|               | Edward Hammond | The Sunshine Project            |

Why Think About Biological Security?  
 Synthetic Genomics: Thoughts on Risk Management

3:30 – 4:30pm Tea Break / Poster Session II (Outside LTA, B, E / Area K)

**Mathematical Modeling** (Chair: Vitor Martins dos Santos, Helmholtz Institute)

|               |   |   |   |
|---------------|---|---|---|
| 4:30 – 5:00pm | Phillip Wright  | University of Sheffield                 | Omics and Synthetic Biology               |
| 5:00 – 5:30pm | Carolyn Lam   | Helmholtz Centre for Infection Research | Formal Design Tools for Synthetic Biology |
| 5:30 – 6:00pm | Alfonso Jaramillo   | Ecole Polytechnique                     | Genetic Circuits by Automated Design      |
| 7:30pm        | Conference Banquet (Hong Kong International Trade & Exhibition Centre - Shuttles from HKUST depart at 6:30pm) |   |   |

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**SESSION D – Chow Tak Sin Lecture Theater (LTG)**

**Roundtables: Open Discussion.**

**Standardization of Parts I – Descriptions and Sharing**

|                |                 |                                   |
|----------------|-----------------|-----------------------------------|
| 8:30 – 10:00am | Tom Knight      | MIT                               |
|                | Deepak Chandran | University of Washington          |
|                | Jonathan Goler  | University of California Berkeley |
|                | Lucian Smith    | University of Washington          |
|                | Sean Sleight    | University of Washington          |

10:00 – 10:30am      Tea Break (Outside LTA, B, E)

**Standardization of Parts II – Measurements**

|                 |                |                          |
|-----------------|----------------|--------------------------|
| 10:30 – 12:00pm | Ingrid Swanson | University of Washington |
|-----------------|----------------|--------------------------|

12:00pm              Group Photo (HKUST Atrium)

**Commercialization of Genetic Parts (Lunch Session)**

|                |                |          |
|----------------|----------------|----------|
| 12:00 – 2:00pm | Robert Carlson | Biodesic |
|----------------|----------------|----------|

**Synthetic Biology and the Pharmaceutical Industry**

|               |          |              |
|---------------|----------|--------------|
| 2:00 – 3:30pm | Jeff Way | Merck Serano |
|---------------|----------|--------------|

3:30 – 4:30pm      Tea Break / Poster Session II (Outside LTA, B, E / Area K)

**Synthetic Plant Biology**

|               |                  |                       |
|---------------|------------------|-----------------------|
| 4:30 – 6:00pm | Michael Deyholos | University of Alberta |
|---------------|------------------|-----------------------|

7:30pm              Conference Banquet (Hong Kong International Trade & Exhibition Centre - Shuttles from HKUST depart at 6:30pm)

sunday, october 12

**SESSION A – Citigroup Lecture Theater (LTA)**

**Industrial Biotechnology** (Chair: Ralf Wagner, GeneArt)

|                 |                               |                     |  |
|-----------------|-------------------------------|---------------------|--|
| 8:30 – 9:00am   | George Guo-Qiang Chen         | Tsinghua University | Application of Synthetic Biology in Industrial Biotechnology   |
| 9:00 – 9:30am   | Qingsheng Qi                  | Shandong University | Exploiting the Novel Potential of Escherichia coli, an Industrialized Microorganism                  |
| 9:30 – 10:00am  | Kristy Hawkins                | Caltech             | Metabolic Engineering of Saccharomyces cerevisiae for the Production of Benzylisoquinoline Alkaloids |
| 10:00 – 10:30am | Tea Break (Outside LTA, B, E) |                     |  |

**Medical Applications** (Chair: Ying Chau, HKUST)

|                 |                     |                  |                           |
|-----------------|---------------------|------------------|---------------------------|
| 10:30 – 11:00am | Wendell Lim         | UCSF             | Nanomedicine              |
| 11:00 – 11:30am | Dean Hamer          | U.S. NIH         | Live Bacteria HIV Therapy |
| 11:30 – 12:00pm | Ralf Wagner         | GeneArt, Germany | Programming HIV Vaccines  |
| 12:00 – 2:00pm  | Lunch (LG7 Canteen) |                  |                           |

**Harnessing and Evolving Microbes** (Chair: Evgueny Kroll, University of Montana)

|               |                               |                    |                            |
|---------------|-------------------------------|--------------------|----------------------------|
| 2:00 – 2:30pm | Sydney Brenner                | The Salk Institute | Special Lecture: Evolution |
| 2:30 – 3:00pm | Lynn Rothschild               | NASA               | Limits for Life on Earth   |
| 3:00 – 3:30pm | George Church                 | Harvard University |                            |
| 3:30 – 4:00pm | Tea Break (Outside LTA, B, E) |                    |                            |

**Agriculture and Plant Genetic Engineering** (Chair: Jim Haseloff, University of Cambridge)

|               |              |                                 |   |
|---------------|--------------|---------------------------------|---|
| 4:00 – 4:30pm | Jim Haseloff | University of Cambridge         | Synthetic Biology of Plants             |
| 4:30 – 5:00pm | Sai-Ming Sun | Chinese University of Hong Kong | Rice Engineering                        |
| 5:00 – 5:30pm | June Medford | Colorado State University       | Engineered Plants as Chemical Sentinels |

**Announcement of Poster Awards** (LTA)

|               |                           |                               |
|---------------|---------------------------|-------------------------------|
| 5:45 – 6:00pm | Grand Prize               | (Sponsored by Morgan Stanley) |
|               | Best Part/Device          | (Sponsored by Invitrogen)     |
|               | Best Use of DNA Synthesis | (Sponsored by DNA2.0)         |
|               | Best Energy Application   | (Sponsored by CMEA Ventures)  |
| 6:00pm        | Closing Remarks           |                               |

sunday, october 12

**SESSION B – Lam Woo Lecture Theater (LTB)**

**Legal Schemes and Rights** (Chair: Jennifer Lynch, UC Berkeley School of Law)

|                 |                               |                                |
|-----------------|-------------------------------|--------------------------------|
| 8:30 – 10:00am  | Janet Hope                    | Australian National University |
|                 | Hilliary Creeley              | UC Berkeley School of Law      |
|                 | David Grewal                  | Harvard University             |
| 10:00 – 10:30am | Tea Break (Outside LTA, B, E) |                                |

Open Source Licenses in Synthetic Biology

**Computer Aided Design** (Chair: Douglas Densmore, UC Berkeley)

|                 |                    |                               |
|-----------------|--------------------|-------------------------------|
| 10:30 – 11:00am | Herbert Sauro      | University of Washington      |
| 11:00 – 11:30am | Chuan-Hsiung Chang | National Yang Ming University |
| 11:30 – 12:00pm | John Barford       | HKUST                         |

Simulation Tools  
 GenomeCAD: Computer Aided Whole Genome Design  
 A Novel Metabolic Pathway Optimization Method

12:00 – 2:00pm Lunch (LG7 Canteen)

**Microfluidics and Biomicrosystems** (Chair: I-Ming Hsing, HKUST)

|               |               |                     |
|---------------|---------------|---------------------|
| 2:00 – 2:30pm | I-Ming Hsing  | HKUST               |
| 2:30 – 3:00pm | Stephen Quake | Stanford University |
| 3:00 – 3:30pm | Irene Chen    | Harvard University  |

BioMicrosystems for Point of Care Diagnostics and Synthetic Biology  
 Precision Measurement in Biology  
 Information in the Prebiotic World

3:30 – 4:00pm Tea Break (Outside LTA, B, E)

**Selected Presentations II** (Chair: King Chow, HKUST)

|               |                    |   |
|---------------|--------------------|---|
| 4:00 – 4:20pm | Cara Tracewell     | Caltech                                 |
| 4:20 – 4:40pm | Manli Zhu          | Tianjin University                      |
| 4:40 – 5:00pm | Rafael Silva-Rocha | Centro Nacional de Biotecnologia, Spain |
| 5:00 – 5:20pm | Hsin-Yi Chang      | National Taiwan University              |

Directed Evolution of New Bacterial Communication Lines  
 A Novel Synthetic Gene Trigger  
 Refactoring the Pseudomonas TOL Transcriptional Circuit  
 Development of 1-Butanol Tolerant Microorganisms

**Announcement of Poster Awards** (LTA)

|               |                           |                               |
|---------------|---------------------------|-------------------------------|
| 5:45 – 6:00pm | Grand Prize               | (Sponsored by Morgan Stanley) |
|               | Best Part/Device          | (Sponsored by Invitrogen)     |
|               | Best Use of DNA Synthesis | (Sponsored by DNA2.0)         |
|               | Best Energy Application   | (Sponsored by CMEA Ventures)  |
| 6:00pm        | Closing Remarks           |                               |



sunday, october 12

**SESSION C – Cheung On Tak Lecture Theater (LTE)****Global Education and Outreach** (Chair: King Chow, HKUST)

|                 |                               |                       |  |
|-----------------|-------------------------------|-----------------------|--|
| 8:30 – 9:00am   | George Cachianes              | Lincoln High School   | Teaching Biotechnology in High School                |
| 9:00 – 9:30am   | Ezra Krausz                   | Animated Story Boards | The BioBuilder Movie Series: “Making of” and Showing |
| 9:30 – 10am     | Sven Panke                    | ETH, Zurich           | iGEM: A European Success                             |
| 10:00 – 10:30am | Tea Break (Outside LTA, B, E) |                       |  |

**Engineering Principles for Parts and Devices** (Chair: Richard Kitney, Imperial College)

|                 |                          |                     |   |
|-----------------|--------------------------|---------------------|---|
| 10:30 – 10:50am | Richard Kitney           | Imperial College    | Overview of Design Principles             |
| 10:50 – 11:10am | Paul Freemont            | Imperial College    | Design of Infection Detectors             |
| 11:10 – 11:30am | Chueh Loo Poh            | NTU, Singapore      | Modeling Techniques for Synthetic Biology |
| 11:30 – 12:00pm | Vitor Martins dos Santos | Helmholtz Institute | Powering Cell Factories                   |

12:00 – 2:00pm Lunch (LG7 Canteen)

**Standards and Technical Workshop** (Chair: J. Christopher Anderson, UC Berkeley)

|               |                               |             |   |
|---------------|-------------------------------|-------------|---|
| 2:00 – 2:30pm | J. Christopher Anderson       | UC Berkeley | Bootstrapping Sets from Standard Assembly |
| 2:30 – 3:00pm | Tom Knight                    | MIT         | BioBrick Technical Standards              |
| 3:00 – 3:30pm | Jason Kelly                   | MIT         | Automated Cloning                         |
| 3:30 – 4:00pm | Tea Break (Outside LTA, B, E) |             |   |

**Investment in Synthetic Biology** *An open discussion between a panel of representatives from the scientific and investment communities*

|               |  |                               |                |
|---------------|--|-------------------------------|----------------|
| 4:00 – 5:30pm | Academic/Industrial Panel  | Chair: Regis Kelly            | QB3, UCSF      |
|               | Panelists: Jay Keasling (UC Berkeley, LBNL), George Church (Harvard University)  |                               |                |
|               | Investment Panel   | Chair: John S. Wadsworth, Jr. | Morgan Stanley |
|               | Panelists: Karl Handelsman (CMEA Ventures), Talli Somekh (Musea Ventures), David Hanzel (X/Seed Ventures), David Berry (Flagship Ventures) |                               |                |

**Announcement of Poster Awards** (LTA)

|               |                           |                               |
|---------------|---------------------------|-------------------------------|
| 5:45 – 6:00pm | Grand Prize               | (Sponsored by Morgan Stanley) |
|               | Best Part/Device          | (Sponsored by Invitrogen)     |
|               | Best Use of DNA Synthesis | (Sponsored by DNA2.0)         |
|               | Best Energy Application   | (Sponsored by CMEA Ventures)  |
| 6:00pm        | Closing Remarks           |                               |

sunday, october 12

**SESSION D – Chow Tak Sin Lecture Theater (LTG)**

**Roundtables: Open Discussion.**

**Computer Aided Design**

8:30 – 10:00am Douglas Densmore UC Berkeley

10:00 – 10:30am Tea Break (Outside LTA, B, E)

**Emergence of Professional Organizations**

|                 |                  |   |
|-----------------|------------------|---|
| 10:30 – 12:00pm | Peer Stähler     | Industry Association of Synthetic Biology (IASB)                            |
|                 | James Brown      | Institute of Engineering and Technology (IET)                               |
|                 | Christina Smolke | Institute of Biological Engineering (IBE)                                   |
|                 | Abhishek Pratap  | International Society for Computational Biology (ICSB) Student Organization |
|                 | Janet Nelson     | Biotechnology Industry Organization (BIO)                                   |

**In Vitro Synthetic Biology: Molecular Programming (Lunch Session)**

12:00 – 2:00pm Erik Winfree Caltech

**Genome Engineering Futures and the Role of the Synthetic Biologist**

2:00 – 3:30pm Peter Robbins INNOGEN, UK

3:30 – 4:00pm Tea Break (Outside LTA, B, E)

**Towards a Consensus Paper Guiding the Development of Synthetic Biology**

4:00 – 5:30pm Markus Schmidt Idialog, Austria

**Announcement of Poster Awards (LTA)**

|               |                           |                               |
|---------------|---------------------------|-------------------------------|
| 5:45 – 6:00pm | Grand Prize               | (Sponsored by Morgan Stanley) |
|               | Best Part/Device          | (Sponsored by Invitrogen)     |
|               | Best Use of DNA Synthesis | (Sponsored by DNA2.0)         |
|               | Best Energy Application   | (Sponsored by CMEA Ventures)  |
| 6:00pm        | Closing Remarks           |                               |