

	Monday (August 13, 2012)	Tuesday (August 14, 2012)	Wednesday (August 15, 2012)	Thursday (August 16, 2012)	Friday (August 17, 2012)
Morning session	<p>8.00- Registration 9.20 Opening by Kurt Gothelf 9.30 William Shih: <i>Self-assembled DNA-nanostructure tools for molecular biophysics</i> 10.00 Friedrich Simmel: <i>DNA devices and circuits as components for cell-like microcompartments</i> 10.30 Coffee Break 11.00 Masayuki Endo: <i>Direct observation of single enzymatic and chemical reactions in the designed DNA nanostructures</i> 11.30 Thom LaBean: <i>Building Agency into Molecular Materials</i></p>	<p>8.00- Registration 9.00-10.30 Tutorial #1, Damien Woods: <i>A crash course in the theory of molecular computing</i></p> <p>10.30-11.00 Coffee break</p> <p>11.00-12.30 Tutorial #2, Milan Stojanovic: <i>Aptamers in Sensing and Molecular Computing</i></p>	<p>9.00-10.00 Plenary Presentation 2, Drew Berry: <i>Visualisations of the molecular machines that create flesh and blood</i> 10.00-10.25 C4 Bahar Behsaz, Jan Manuch and Ladislav Stacho: <i>Turing Universality at Temperature 1 in Step-wise and Stage Assembly</i> 10.25-10.45 Coffee break 10.45-11.10 C5 Eugen Czeizler and Alexandru Popa: <i>Synthesizing Minimal Tile Sets for Complex Patterns in the framework of Patterned DNA Self-Assembly</i> 11.10-11.35 C6 Carsten Svaneborg, Harold Fellermann and Steen Rasmussen: <i>DNA Self-Assembly and Computation Studied with a Coarse-grained Dynamic Bonded Model</i> 11.35-12.00 C7 Petr Sulc, Thomas Ouldrige, Flavio Romano, Ard Louis and Jonathan Doye: <i>Coarse-grained model of DNA for DNA nanotechnology</i></p>	<p>9.00-10.00 Plenary presentation 3, Jeremy Gunawardena: <i>Protein computing</i> 10.00-10.25 C11 Mauricio Pilo-Pais, Sarah Goldberg, Enrique Samano, Thom Labean and Gleb Finkelstein: <i>Connecting the Nanodots: Programmable Nanofabrication of Fused Metal Shapes on DNA Templates</i> 10.25-10.45 Coffee break 10.45-11.10 C12 Robert Brijder, Joris Gillis and Jan Van Den Bussche: <i>A type system for DNAQL</i> 11.10-11.35 C13 Anne Condon, Bonnie Kirkpatrick and Jan Manuch: <i>Reachability bounds for chemical reaction networks and strand displacement systems</i> 11.35-12.00 C14 Anton Kan, Koh-Ichiroh Shohda and Akira Suyama: <i>A DNA Based Molecular Logic Gate Capable of a Broad Class of Logical Operations</i> Announcement of the 2012 Tulip Award</p>	<p>9.00-10.00 Plenary Presentation 5, Radhika Nagpal: <i>The TERMES Project: An expedition in large-scale self-assembly</i> 10.00-10.25 C19 Jean Michel Arbona, Juan Elezgaray and Jean Pierre Aimé: <i>Modelling the folding of DNA origami</i> 10.25-10.45 Coffee break 10.45-11.10 Jørgen E. Andersen Special Lecture: <i>Geometry-based prediction and classification of biomolecular architecture</i> 11.10-11.35: C20: Xiaojin He, Yongli Mi, Dong Lei and Nian Lin: <i>A Smallest 3D Polyhedron Folded by a Single-Strand DNA</i> 11.35-12.00 C21: Bingling Li, Xi Chen, Jeremy McLain, Neima Briggs, Peter Allen, Yu Sherry Jiang, Sanchita Bhadra and Andrew Ellington: <i>Application of nucleic acid circuitry to molecular diagnostics</i> 12:00-12:25 C22 Max Garzon and Kiran C. Bobba: <i>A Geometric Approach to Gibbs Energy Landscapes and Optimal DNA Codeword Design</i> 12.25-12.30 Closing remarks by Kurt Gothelf</p>
Lunch	12.00-13.30 Group photo and dnatec Lunch	12.30-13.45 DNA18 Lunch	12.00-13.15 DNA18 Lunch	12.00-13.15 DNA18 Lunch	12.30-13.40 DNA18 Lunch
Afternoon session	<p>13.30 Hao Yan: <i>Designer DNA Architectures for Programmable Self-assembly</i> 14.00: Itamar Willner: <i>Nanobiotechnology with DNA</i> 14.30: Luc Jaeger: <i>Is RNA self-assembly the same as DNA self-assembly?</i> 15.00 Coffee break 15.30 Andrew Turberfield: <i>Molecular Machinery from DNA</i> 16.00 Chengde Mao: <i>Self-Assembled DNA Nanocages</i> 16.30 Break 17.00 Andrew Ellington: <i>DNA nanotechnology: too small and too costly</i> 17.30 Ned Seeman: <i>Using DNA's Inherent Chemical Information to Control Structure</i></p>	<p>13.45-14.00 Introduction to DNA18 14.00-15.00 Plenary presentation 1, Peng Yin: <i>Modular Self-assembly of Molecular Shapes</i> 15.00-15.25 C1: Lila Kari and Steffen Kopecki: <i>Deciding Whether a Regular Language is Generated by a Splicing System</i> 15.25-15.30 Introduction to impromptu sessions 15.30-17.25 Poster session and refreshments 17.25-17.50 C2 Ho-Lin Chen, David Doty and David Soloveichik: <i>Deterministic Function Computation with Chemical Reaction Networks</i> 17.50-18.15 C3 Teruo Fujii and Yannick Rondelez: <i>Predator-Prey DNA oscillators</i></p>	<p>13.15-13.40 C8 Chris Thachuk and Anne Condon: <i>Space and energy efficient computation with DNA strand displacement systems</i> 13.40-14.05 C9 Iñaki Sainz de Murieta and Alfonso Rodri-guez-Patón: <i>Probabilistic reasoning with a Bayesian DNA device based on strand displacement</i> 14.05-14.30 C10: Lasse L. Hildebrandt, Zhao Zhang, Kurt V. Gothelf and Victoria Birkedal: <i>A DNA actuator with 11 states studied by single molecule FRET microscopy</i> 14.30 – 18.00 Group photo and Tour to the Old City of Aarhus</p>	<p>13.15-13.40 C15 Nathanael Aubert, Yannick Rondelez, Teruo Fujii and Masami Hagiya: <i>Enforcing delays in DNA computing systems</i> 13.40-14.05 C16: Pakpoom Subsoontorn: <i>Scaling up genetically encoded data storage</i> 14.05-16.00 Poster session and refreshments 16.00-17.00 Plenary presentation 4 - Turing Lecture, Grzegorz Rozenberg: <i>Processes inspired by interactions of chemical reactions in living cells</i> 17.00-17.20 Break 17.20-17.45 C17: Maasa Yokomori, Osamu Gotoh and Akira Suyama: <i>Genome and transcriptome analysis using code words for DNA computing</i> 16.45-18.10 C18 Monica Ortiz and Drew Endy: <i>Engineered transmission of DNA messages among bacteria</i></p>	<p>13.40 -16.30 Impromptu sessions 16.30-18.00 Bar and goodbye</p>
Evening	18.00 dnatec 2012 dinner	Dinner on your own	Dinner on your own	18.30 Banquet and presentation of awards	Dinner on your own