

7th Conference on the Foundations of Nanoscience (FNANO 2010)

Detailed Schedule

April 26, 2010 6:00-9:00 pm		
		Registration
6:00-7:00 pm		Snacks at registration table
April 27, 2010		
7:30-8:30 am		Breakfast
7:40-7:45 am	John Reif (conference chair)	Welcome from conference chair
7:45-8:15	Poster Session A Highlights	90 second "blitz" presentation for each presenter in Poster Session A
April 27, 2010		
		Track on Self-Assembly Across Scales; Track Chair Karl Böhringer, Department of Electrical Engineering, University of Washington, Seattle WA, karl@ee.washington.edu
8:15-8:55	Keynote	Takao Someya (someya@ee.t.u-tokyo.ac.jp, 7-3-1 Hongo, Bunkyo-ku, Tokyo 113-8656 Japan) Printed skin-like large-area flexible sensors and actuators
8:55-9:20	Invited Talk	Heiko O. Jacobs (hjacob@umn.edu, Department of Electrical and Computer Engineering University of Minnesota 200 Union Street SE Minneapolis, MN 55455) Fluidic Surface-Tension-Directed Self-Assembly of Miniaturized Semiconductor Dies Across Length Scales and 3D Topologies
9:20-9:40	Contributed Talk	Cyrill Kuemin (cku@zurich.ibm.com, IBM Research GmbH IBM Research - Zurich Säumerstrasse 4 CH-8803 Rüschlikon Switzerland) Size-selective templated assembly of sub-micron polymer particles
9:40-10:00	Contributed Talk	Mark Olson (m-olson@northwestern.edu, Department of Chemistry Northwestern University Evanston, IL 60208 USA) Template-Directed Nanoparticulate Assemblies

10:00-10:45			Break, refreshments, posters for am tracks
01. Self-assembly across scales	Poster A	Marcel Tichem (m.tichem@tudelft.nl, Delft University of Technology Faculty of 3mE, Department of PME Mekelweg 2 NL-2628CD Delft The Netherlands) Development of self-assembly supported process flows	
01. Self-assembly across scales	Poster A	Chris Phoenix (cphoenix@gmail.com, Box 191267 San Diego, CA, 92159) Thinking Big: Specification, Fabrication, and Control of Teradalton Structures	
01. Self-assembly across scales	Poster A	Shuheii Miyashita (miya@ifi.uzh.ch, Andreasstrasse 15, 8050 Zurich, Switzerland) A cm-sized enzyme model for cascade conformation changes	
01. Self-assembly across scales	Poster A	Eunjeong Lee (elee@seas.harvard.edu, Rm 404, 60 Oxford Street School of Engineering and Applied Science Harvard University Cambridge, MA 02138) Fabrication and Actuation of a Soft Robot with Dramatic Morphing	
02. Computational Tools	Poster A	Gregg Gallatin (gregg.gallatin@nist.gov, NIST, CNST 100 Bureau Drive, MS 6203 Gaithersburg, MD 20899) Non-Equilibrium Field Theory and Self Assembly	
April 27, 2010			Track on Computational Tools for Self-Assembly; Track Chair William Shih, Dana Farber Cancer Institute, Harvard University, William_Shih@dfci.harvard.edu
10:45-11:10	Invited Talk	Joseph Schaeffer (schaeffer@centrosome.dna.caltech.edu,) Kinetics of Multiple Interacting DNA Strands: Modeling, Simulation, and Experiment	
11:10-11:35	Invited Talk	Yiannis Kaznessis (yiannis@cems.umn.edu, Department of Chemical Engineering and Materials Science 421 Washington Ave SE Minneapolis, MN 55455) Multiscale Models for Synthetic Biology	
11:35-12:00	Invited Talk	Marc Riedel (mriedel@umn.edu, Electrical & Computer Engineering, Biomedical Informatics & Computational Biology; University of Minnesota) Digital Signal Processing with Biomolecular Reactions	
12:00-1:00 pm			Lunch
April 27, 2010			Track on Synthetic Biology; Track Chair R. Carston Wagner, College of Pharmacy, University of Minnesota, wagne003@umn.edu
1-1:40	Keynote	Pamela Silver (pamela_silver@hms.harvard.edu, Harvard Medical School 200 Longwood Ave Boston, MA 02115) Designing Biological Systems: Memory, Metabolism and Mutualism	
1:40-2:05	Invited Talk	Justin Gallivan (justin.gallivan@emory.edu, 1515 Dickey Dr. Atlanta, GA 30322) Reprogramming Bacteria to Seek and Destroy Small Molecules	
2:05-2:30	Invited Talk	Alexander Deiters (alex_deiters@ncsu.edu, North Carolina State University Department of Chemistry Campus Box 8204 Raleigh, NC 27695-8204 USA) Synthetic Tools to Control Biological Processes with Light	

2:30-3:30		
Break, refreshments, posters for pm tracks		
03. Synthetic Biology	Poster A	Harish Chandran (harish@cs.duke.edu, 9108 McQueen Drive Durham NC 27705) Meta-DNA: Synthetic Biology via DNA Nanostructures and Hybridization Reactions
03. Synthetic Biology	Poster A	Bin Wang (wangb@marshall.edu, Marshall University 1700 3rd Ave Byrd Biotech Science Center, Room 241L Huntington, WV 25703) An investigation of natural RNA motifs for the design of RNA nanoarchitectures
03. Synthetic Biology	Poster A	Kristian Müller (kristian@biologie.uni-freiburg.de, Schänzlestr. 1 79104 Freiburg Germany) DNA Origami as Breadboard to Analyze and Steer Cell Receptor Activation
04. Biomedical Nanotechnology	Poster A	Adrian Fegan (fegan001@umn.edu, University of Minnesota Department of Medicinal Chemistry 308 Harvard Street SE 8-185 Weaver-Densford Hall Minneapolis, MN 55455) DHFR Fusion Proteins for the Cellular Delivery of Methotrexate Labeled Oligonucleotides
04. Biomedical Nanotechnology	Poster A	Kirill Afonin (kafonin@chem.ucsb.edu, 175 Kinman Ave, apt 38 Golea, CA, 93117) In vitro assembly of cubic RNA-based scaffolds designed in silico
04. Biomedical Nanotechnology	Poster A	Daniel Hautzinger (daniel.hautzinger@imtek.uni-freiburg.de, University of Freiburg Institute for Biology III AG Müller Schaenzlestr. 1 79104 Freiburg Germany) DNA origami as complex ligands in cell signaling studies.
04. Biomedical Nanotechnology	Poster A	Elton Graugnard (eltongraugnard@boisestate.edu, Materials Science & Engineering Boise State University 1910 University Drive Boise, ID 83725-2075) Point-of-Contact, DNA-Based Amplifier for Detecting Cancer-Related Micro-RNA in Blood Serum
04. Biomedical Nanotechnology	Poster A	Sissel Juul (sjj@mb.au.dk, Department of Molecular Biology and Interdisciplinary Nanoscience Center University of Aarhus C.F. Mollers Allé bldg. 1130 8000 Århus C Denmark) Detection of DNA Topoisomerase I related enzyme activities at the single molecule level
04. Biomedical Nanotechnology	Poster A	Amber Cox (ambercox1@u.boisestate.edu, Materials Science & Engineering Boise State University 1910 University Drive Boise, ID 83725-2075) Reaction Kinetics of a DNA-Based Amplifier for use in Detection of Cancer-Related miRNAs
04. Biomedical Nanotechnology	Poster A	Kasper Jahn (kj@inano.dk, Banegaardsgade 16, 2.D2 8000 Aarhus Denmark) Improved site-specific modification of long RNA, by using LNA guided chemistry
April 27, 2010		
Track on Biomedical Nanotechnology; Track Chair Thom LaBean, Department of Computer Science, Duke University, thl@cs.duke.edu		
3:30-4:10	Keynote	Kam Leong (kam.leong@duke.edu, Department of Biomedical Engineering Box 90281 Duke University Durham, NC 27708) Microfluidic Platforms related to Nanomedicine

4:10-4:35	Invited Talk	Stanley Brown (stanley@nano.ku.dk, Dept. of Biology University of Copenhagen Ole Maaløes Vej 5 2200 Copenhagen Denmark) Genetic searches for particle-dissociating proteins
4:35-5:00	Invited Talk	Kasper Jahn (kj@inano.dk, Banegaardsgade 16, 2.D2 8000 Aarhus Denmark) Self-assembly and functionalization of nanoscale DNA boxes
5:00-5:20	Contributed Talk	Kirill Afonin (kafonin@chem.ucsb.edu, Department of Chemistry and Biochemistry PSBN 4638 University of California Santa Barbara, CA 93106-9510) Design, Synthesis and Characterization of 3D Self-Assembling Nucleic Acid Nano-scaffolds with Their Further Functionalization



5:20-6:00	ISNSCE Nanoscience Award Address: Prof. Fraser Stoddart, Northwestern University Department of Chemistry, Director of the Center for the Chemistry of Integrated Systems (CCIS)	
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04. Biomedical Nanotechnology	Poster A	Amber Cox (ambercox1@u.boisestate.edu, Materials Science & Engineering Boise State University 1910 University Drive Boise, ID 83725-2075) Reaction Kinetics of a DNA-Based Amplifier for use in Detection of Cancer-Related miRNAs
04. Biomedical Nanotechnology	Poster A	Kasper Jahn (kj@inano.dk, Banegaardsgade 16, 2.D2 8000 Aarhus Denmark) Improved site-specific modification of long RNA, by using LNA guided chemistry

April 28, 2010

7:30-8:30 am

Breakfast

8:15-9:00

90 second "blitz" presentation for each presenter in Poster Session B

April 28, 2010

Track on Molecular Motors I; Track Chair Andrew Turberfield

9:00-9:40

Keynote

Dean Astumian (astumian@maine.edu, Dept. of Physics 5709 Bennett Hall University of Maine Orono, ME 04469) Kinetics and Thermodynamics of Molecular Motors

9:40-10:00

contributed

Lei Fang (lfang@u.northwestern.edu, Department of Chemistry Northwestern University 2145 Sheridan Road Evanston, IL 60208) Harnessing Mechanical Energy from Artificial Muscle-Like Materials

10:00-10:50

break, refreshments, posters for am tracks05. Molecular
Motors

Poster B

Mark Olah (mjo@cs.unm.edu, 1809 Girard Blvd SE Apt A Albuquerque, NM 87106)
Multivalent Random Walkers: An Executable Model of Non-Diffusive Motion at the
Nanoscale05. Molecular
Motors

Poster B

Parminder Lally (p.lally1@physics.ox.ac.uk, University of Oxford Department of Physics
Clarendon Laboratory Parks Road Oxford OX1 3PU United Kingdom) A cascade of DNA
strand displacements using toehold-mediated exchange05. Molecular
Motors

Poster B

Hiroyuki Asanuma (asanuma@mol.nagoya-u.ac.jp, Furo-cho, Chikusa-ku, Nagoya 464-
8603, Japan) Interstrand-wedged duplex with threoninol-nucleotides as a new duplex
motif for the complete photoregulation of hybridization05. Molecular
Motors

Poster B

Daniel Lubrich (phyld@nus.edu.sg, Physics Department National University of Singapore 2
Science Drive 3 Singapore 117542) A rotational DNA nanomotor driven by an externally
controlled electric field

April 28, 2010

Track on Molecular Motors II; Track Chair Andrew Turberfield

10:50-11:15

invited

Yu He (yuhe@fas.harvard.edu, Yu He Department of Chemistry and Chemical Biology,
Harvard University, 12 Oxford Street, Cambridge, MA 02138) DNA nanomachine
powered autonomous multistep organic synthesis

11:15-11:35

contributed

Ashutosh Agarwal (University of Florida, Columbia University,) Exploiting self-assembly in
the fabrication of hybrid devices

April 28, 2010		Track on Nanoplasmonics and Nanophotonics; Track Chair Eray Aydil, U. Minnesota, aydil@tc.umn.edu
11:40-12:00	Contributed Talk	Jaswinder Sharma (jksharma@lanl.gov, Center for Integrated Nanotechnologies, Los Alamos National Laboratory, Los Alamos, NM 87545) Synthesis of Silver Nanoclusters Emitting at Laser Tuned Wavelengths
12-1 pm		Lunch
April 28, 2010		Track on Self-assembled Computer Circuit and System Architectures; Track chair Chris Dwyer, Department of Electrical and Computer Engineering, Duke University, dwyer@ece.duke.edu
1-1:40	Keynote Talk	Erik Winfree (Caltech) Progress and Prospects in the Theory of Molecular Programming
1:40-2:05	Invited Talk	Alexander Sinitskii (as18@rice.edu, Department of Chemistry Rice University 6100 Main Street Houston, TX 77005) Electronic devices based on graphene nanoribbons produced by chemical unzipping of carbon nanotubes
2:05-2:30	Invited Talk	Michael Niemier (mniemier@nd.edu, University of Notre Dame Department of Computer Sci. & Eng. 384 Fitzpatrick Hall Notre Dame, IN 46556) Design Space Exploration for Nanomagnet Logic Systems
2:30-4:00		break, refreshments, posters from pm sessions
07. Architectures	Poster Session B	Lulu Qian (luluqian@caltech.edu, CALIFORNIA INSTITUTE OF TECHNOLOGY MAIL CODE 136-93 1200 E CALIFORNIA BLVD PASADENA, CA 91125) Initial circuits using a simple DNA gate motif
07. Architectures	Poster Session B	Mohammad Mottaghi (mamad@cs.duke.edu, 209 A bridgefield pl 27705 NC Durham) A Monte-Carlo FRET Simulator for Complex DNA-Chromophore Nanostructures
07. Architectures	Poster Session B	Nitesh Madaan (madaanitesh@gmail.com, C 100 BNSN Chemistry and Biochemistry Department Brigham Young University Provo Utah 84602) Chemically stable high resolution surface patterning by thiolated DNA for self assembly of nanocircuits on gold nano-dot surface
07. Architectures	Poster Session B	Jianfei Liu (ljf6362@gmail.com, 350CB, Clyde Building, Provo, UT, 84602) Metallization of Branched DNA Origami for Nanoelectronic Circuit Fabrication
08. Self-assembled DNA nanostructures Wed.	Poster Session B	Nadine Dabby (ndabby@caltech.edu, Caltech Mail Code 136-93 1200 E. California Blvd. Pasadena, CA 91125) A DNA polymer that grows in logarithmic time

08. Self-assembled DNA nanostructures Wed.	Poster Session B	Yonggang Ke (yonggang_ke@dfci.harvard.edu, Department of Cancer Biology Dana-Farber Cancer Institute 44 Binney St., Rm 1048 Boston, MA 02115) Compact 3D DNA-origami Packed on a Hexagonal Lattice
08. Self-assembled DNA nanostructures Wed.	Poster Session B	Sarah Goldberg (sg150@phy.duke.edu, Duke University Department of Physics Physics Bldg., Science Dr. Box 90305 Durham, NC 27708 USA) Directed Assembly of Streptavidin-Gold Conjugates on DNA Origami
08. Self-assembled DNA nanostructures Wed.	Poster Session B	Valerie Goss (vgoss@nd.edu, The University of Notre Dame Department of Chemistry and Biochemistry 251 Nieuwland Science Hall Notre Dame, IN 46556 USA) DNA Origami In Situ Responses to an Applied Surface Potential
08. Self-assembled DNA nanostructures Wed.	Poster Session B	Susan Buckhout-White (swhite@cbmse.nrl.navy.mil, Center for Bio/Molecular Science and Engineering Naval Research Laboratory 4555 Overlook Ave SW Washington DC 20375) Characterization methods for DNA origami metrology
08. Self-assembled DNA nanostructures Wed.	Poster Session B	Cristina Flors (cristina.flors@ed.ac.uk, School of Chemistry University of Edinburgh Joseph Black Building The King's Buildings West Mains Road EH9 3JJ Edinburgh, UK) Super-resolution fluorescence microscopy of DNA
08. Self-assembled DNA nanostructures Wed.	Poster Session B	Masayuki Endo (endo@kuchem.kyoto-u.ac.jp, Yoshida-ushinomiya-cho, Sakyo-ku, Kyoto 606-8501, Japan) Programmed self-assembly of DNA jigsaw pieces
08. Self-assembled DNA nanostructures Wed.	Poster Session B	Elisabeth Gwinn (bgwinn@physics.ucsb.edu, Physics Department Santa Barbara CA 93106) Selective homopolymer hosts for fluorescent silver-DNA nanostructures
08. Self-assembled DNA nanostructures Wed.	Poster Session B	Faisal Aldaye (faisal_aldaye@hms.harvard.edu, Department of Systems Biology Harvard Medical School 200 Longwood Ave., WAB536 Boston, MA 02115, USA) A programmable DNA-based extracellular matrix
08. Self-assembled DNA nanostructures Wed.	Poster Session B	Shogo Hamada (hamada@mrt.dis.titech.ac.jp, P.Box G3-53, 4259 Nagatsuda-cho, Midori-ku, Yokohama-city, Japan) Toward Self-Organization of DNA Nanorings Using Non-specific Interactions
08. Self-assembled DNA nanostructures Wed.	Poster Session B	Kyoung Nan Kim (kkim4@nd.edu, 275 Stepan hall, University of Notre Dame, Notre Dame, IN 46545) Controlling the orientation of DNA origami during oligomerization
08. Self-assembled DNA nanostructures Wed.	Poster Session B	Hieu Bui (hieubui@boisestate.edu, 1910 University Dr., Boise, ID 83725-2075) Quantum dot arrays with controlled periodicity using DNA origami nanotubes
08. Self-assembled DNA nanostructures Wed.	Poster Session B	Elisabeth Gwinn (bgwinn@physics.ucsb.edu, Physics Department UCSB Santa Barbara CA 93106) Poly(dC) and Poly(dG) as Functional Ag:DNA Fluorophore Hosts

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08. Self-assembled DNA nanostructures Wed.	Poster Session B	Dongran Han (dhan13@asu.edu, ARIZONA STATE UNIVERSITY Biodesign, Yan Lab/Dongran Han 1001 S MCALLISTER AVE TEMPE AZ 85287 4807278570) Toward Designing and Constructing Complex Curvatures of DNA Nanostructures in 3D Space

April 28, 2010		Track on Self-assembled DNA nanostructures; Track Chair Nadrian Seeman, New York University, ned.seeman@nyu.edu
4:00-4:40	Keynote	Hao Yan (hao.yan@asu.edu, Department of Chemistry and Biochemistry Arizona State University Tempe, AZ 85287) Designer DNA architectures for Nanobiotechnology
4:40-5:05	Invited Talk	Satoshi Murata (murata@dis.titech.ac.jp, G3-53, 4259 Nagatsuda, Midori, Yokohama, 226-8502, Japan) Substrate-assisted Self-assembly of DNA nanostructure and its application in Molecular Robotics
5:05-5:30	Invited Talk	Phillip Milnes (p.j.milnes@warwick.ac.uk, Department of Chemistry, Library Road, University of Warwick, Coventry, CV4 7AL, Great Britain) Sequential DNA templated reactions towards the synthesis of ordered oligomers
5:30-5:55	Invited Talk	Kurt Gothelf (kvg@chem.au.dk, Centre for DNA Nanotechnology (CDNA) at iNANO and Department of Chemistry, Aarhus University, 8000 Århus C, Denmark) DNA Origami as a Platform for Assembly and Chemical Reactions of Molecules and Materials

April 28, 2010 7:30-8:30 pm		Poster Session B, Flaming desserts
07. Architectures	Poster session B	Lulu Qian (luluqian@caltech.edu, CALIFORNIA INSTITUTE OF TECHNOLOGY MAIL CODE 136-93 1200 E CALIFORNIA BLVD PASADENA, CA 91125) Initial circuits using a simple DNA gate motif
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April 29, 2010 7:30-8:30 am	Breakfast
7:45-8:30	90 second "blitz" presentation for each presenter in Poster Session C

April 29, 2010	Track on Self-assembled Surface Chemistry; Track chair Lloyd Smith, Department of Chemistry, University of Wisconsin-Madison, smith@chem.wisc.edu	
8:30-9:10	keynote	Job Dekker (Job.Dekker@umassmed.edu,) Folding principles of genomes
9:10-9:30	Contributed Talk	Stephen Ebbens (s.ebbens@sheffield.ac.uk, Department of Chemical and Process Engineering The University of Sheffield Mappin Street Sheffield S1 3JD) Self-Assembled Phoretic Swimmers
9:30-9:55	Invited Talk	William Murphy (wlmurphy@wisc.edu, 1550 Engineering Drive Madison, WI 53706) Non-covalent biomolecule sequestering in the stem cell microenvironment
9:55-10:20	Invited Talk	Niles Pierce (niles@caltech.edu, Caltech Mail Code 114-96 Pasadena, CA 91125) Readout and regulation via programmable mechanical transduction with RNA

10:20-11:00	Break, posters (Thursday and Friday am tracks), snacks	
09. Self-assembled surface chemistry	Poster session C	Tao Ye (tao.ye@ucmerced.edu, School of Natural Sciences University of California 5200 N. Lake Rd Merced, CA 95343) Nanoscale measurement and manipulation of DNA at electrochemical interfaces
09. Self-assembled surface chemistry	Poster session C	Risheng Wang (rw2399@columbia.edu, Columbia University) Bio-functionalization of Nanopatterned Surfaces and their Integration with DNA Molecules and Nanostructures
09. Self-assembled surface chemistry	Poster session C	Ali Coskun (coskun@northwestern.edu, 2145 Sheridan Road, Department of Chemistry, Northwestern University 60208, Evanston, IL, USA) DNA Molecules and Nanostructures
10. Principles and Theory	Poster session C	Viresh Thusu (vt10@duke.edu, 401 Archdale Drive, Apt #803 Durham, NC 27707) Sequential Self-Assembly and the Impact of Assembly Order
10. Principles and Theory	Poster session C	Matthew Patitz (mpatitz@cs.iastate.edu, 2305 Northwestern Ave. Ames, IA 50010) Fuzzy Temperature: A New Model for Fault Tolerance in Tile Self-Assembly

10. Principles and Theory	Poster session C	Promita Chakraborty (promita9@cs.vt.edu, 509 Southgate Dr Blacksburg VA 24060. USA) A Tangible Interactive Platform to Support the Understanding of the Interactions in Amino Acids
13. Self-assembled DNA nanostructures Fri.	Poster session C	Fumiaki Tanaka (fumi95@is.s.u-tokyo.ac.jp, Science Building No.7, Department of Computer Science, Graduate School of Information Science and Technology, University of Tokyo, 7-3-1 Hongo, Bunkyo-ku, Tokyo 113-8656, JAPAN.) Towards a controllable 3D DNA nanostructure
13. Self-assembled DNA nanostructures Fri.	Poster session C	Suchetan Pal (spal2@asu.edu, Suchetan Pal Center for Single Molecule Biophysics, Biodesign Institute, 1001 S. McAllister Ave. Tempe, AZ 85287-5601, 480-727-8570.) Stable silver nanoparticle–DNA conjugates for directed self-assembly of discrete silver nanoparticle and silver-gold nanoparticle structures on DNA origami
13. Self-assembled DNA nanostructures Fri.	Poster session C	Minghui Liu (Minghui.Liu@asu.edu, 1001 S Mcallister Ave, Tempe, AZ, 85287) Site-specific display of bacteriophage MS2 capsids on DNA origami scaffolds
13. Self-assembled DNA nanostructures Fri.	Poster session C	Xiaowei Liu (Xiaowei.Liu@asu.edu, Arizona State University The Biodesign Institute 1001 S McAllister Ave Tempe, AZ 85287) Preliminary investigation on cell-cell interaction induced by multivalent bi-specific aptamers
13. Self-assembled DNA nanostructures Fri.	Poster session C	ZHAO ZHAO (zzhao26@asu.edu, 1001 S. McAllister Ave. Tempe, AZ, 85281) A Route to Scale up DNA Origami using Staple Tiles
13. Self-assembled DNA nanostructures Fri.	Poster session C	Christopher McLaughlin (cmac.lab@gmail.com, Department of Chemistry McGill University Otto Maass (OM) Chemistry Building 801 Sherbrooke Street West, Room 435 Montreal, Quebec, Canada H3A 2K6) Supramolecular DNA Nanotechnology: Using Synthetic Molecules to Direct DNA Assembly
13. Self-assembled DNA nanostructures Fri.	Poster session C	Thomas Tørring (thomast@inano.dk, Langelandsgade 140 8000 Århus C Denmark) Single Molecule Studies of Chemical Reactions on DNA Origami
13. Self-assembled DNA nanostructures Fri.	Poster session C	William Sherman (wsherman@bnl.gov, Center for Functional Nanomaterials Brookhaven National Laboratory PO Box 5000 Upton, NY 11973) DNA Catalyzed Aggregation of Gold Nanoparticles
14. Top-down meets bottom-up	Poster session C	Dong Ok Shin (juventuss@kaist.ac.kr, Dept. of Materials Science & Engineering Soft Nanomaterials Lab. 335 Hwahangno (373-1 Guseong-dong), Yuseong-gu, Daejeon 305-701, Republic of Korea) Hybridization of Top-Down and Bottom-Up approach for Sublithographic Dimension

14. Top-down meets bottom-up	Poster session C	Mark Stoykovich (mark.stoykovich@colorado.edu, Department of Chemical and Biological Engineering University of Colorado – Boulder Campus Box 424, ECCH 136 Boulder, Colorado 80309-0424) Block copolymer self-assembly for nanofabrication: The importance and characterization of interfacial roughness between copolymer domains
14. Top-down meets bottom-up	Poster session C	Daniel Lubrich (daniel_lubrich@yahoo.com, NanoCore, Engineering Block A, EA, Level 4, Room No. 27, Faculty of Engineering, National University of Singapore, Singapore 117576, Singapore.) Surface-Bound Micro-Enclosures for Biomolecules
April 29, 2010		Track on Principles and Theory of Self-assembly; Track chair Paul W. K. Rothmund, Departments of Computer Science, Bioengineering, and Computation and Neural Systems, Caltech, Pasadena CA, pwkr@dna.caltech.edu
11-11:40	Keynote	George Oster (UCB) The motor that packages DNA
11:40-12:00	Contributed talk	Ion Petre (ipetre@abo.fi, Abo Akademi University Department of IT Turku 20520 Finland) Molecular self-assembly models of variable resolution
12:00-12:25	Invited Talk	David Doty (ddoty@csd.uwo.ca, 355 Middlesex College University of Western Ontario London, ON, Canada, N6A 5B7) The State of Theoretical Self-Assembly at Iowa State
12:30-1:30		Lunch
April 29, 2010		Viral Self-Assembly; Track Chair Adam Zlotnick, Department of Biology, Indiana University, Bloomington, IN, azlotnic@indiana.edu
1:30-2:10	Keynote	Steven A. Lommel (steve_lommel@ncsu.edu, North Carolina State University, Department of Plant Pathology, 2506 Gardner Hall, Box 7616, Raleigh, NC 27695-7616) An Icosahedral plant virus as a programmable multifunctional nanoparticle
2:10-2:35	Invited talk	Adam Zlotnick (azlotnic@indiana.edu, Department of Molecular & Cellular Biochemistry Indiana University, 212 S Hawthorne Dr Simon Hall MSB, room 220 Bloomington, IN 47405-7003) Complex assembly reactions made simple

2:35-3:30			Posters from Thurs pm and Friday am session, snacks
11. Viral Self-assembly	Poster	Session C	Prerna Kaur (prernakaur_21@yahoo.com, Hunter College 695 Park Ave Hunter North Building Chemistry Department Room1319 New York NY-10065.) 3D Self-Assembly of Peptide Nanowires into Micron-Sized Crystalline Cubes with Nanoparticle Joints
13. Self-assembled DNA nanostructures Fri.	Poster	Session C	Xixi Wei (xixi.wei@asu.edu, Arizona State University The Biodesign Institute 1001 S McAllister Ave Tempe, AZ 85287) Size-dependent Integration of DNA Nanoarrays in Live Cells
13. Self-assembled DNA nanostructures Fri.	Poster	Session C	Elisabeth Pound (epound@chem.byu.edu, Department of Chemistry and Biochemistry C100 BNSN Brigham Young University Provo, UT 84602) DNA Origami for Nanoelectronic Circuit Templates
13. Self-assembled DNA nanostructures Fri.	Poster	Session C	Chenxiang Lin (chenxiang_lin@dfci.harvard.edu, Wyss Institute for Biologically Inspired Engineering Harvard University HIM, 10th Floor/ 1043.G 4 Blackfan Circle Boston, MA 02115) Exploring Applications of DNA Origami in Biophysical Study
13. Self-assembled DNA nanostructures Fri.	Poster	Session C	Huajie Liu (liu@chem.au.dk, Centre for DNA Nanotechnology (CDNA), Interdisciplinary Nanoscience Center (iNANO) and Department of Chemistry, Aarhus University, Aarhus 8000, Denmark) Directed polymerization of dendrimers on DNA template
13. Self-assembled DNA nanostructures Fri.	Poster	Session C	Koshala Sarveswaran (ksarvesw@nd.edu, Department of Chemistry and Biochemistry University of Notre Dame, Notre Dame, IN 46556, USA) Attachment of DNA origami on lithographically patterned silicon (100)
13. Self-assembled DNA nanostructures Fri.	Poster	Session C	Philip Lukeman (psl@csupomona.edu, Department of Chemistry, Cal Poly Pomona, 3801 W Temple Ave, Pomona, CA 91768.) Towards Parallel Control Of Biomolecular Function By Addressable Photocleavable Surfaces Of DNA
13. Self-assembled DNA nanostructures Fri.	Poster	Session C	Alexandru Rotaru (alexandru.rotaru@chem.au.dk, CDNA and Department of Chemistry, University of Aarhus, Langelandsgade 140 DK-8000 Aarhus C Denmark) Chemoselective cleavage of streptavidin from DNA origami scaffold studied with AFM at a single molecule level.
13. Self-assembled DNA nanostructures Fri.	Poster	Session C	Akinori Kuzuya (kuzu@mkomi.rcast.u-tokyo.ac.jp, RCAST, The University of Tokyo 4-6-1 Komaba, Meguro, Tokyo 153-8904 Japan) Protein/Gold Nanoparticle Heteroarray Formed on a DNA Origami Scaffold
13. Self-assembled DNA nanostructures Fri.	Poster	Session C	Felicie Andersen (fa@mb.au.dk, Aarhus) Nano-scale DNA cages: structural and functional properties of the single-stranded linker regions, and Functional Properties of the Single-Stranded Linker Regions
14. Top-down meets bottom-up	Poster	Session C	Daniel Lubrich (daniel_lubrich@yahoo.com, NanoCore, Engineering Block A, EA, Level 4, Room No. 27, Faculty of Engineering, National University of Singapore, Singapore 117576, Singapore.) Surface-Bound Micro-Enclosures for Biomolecules

14. Top-down meets bottom-up	Poster Session C	Dong Ok Shin (juventuss@kaist.ac.kr, Dept. of Materials Science & Engineering Soft Nanomaterials Lab. 335 Hwahangno (373-1 Guseong-dong), Yuseong-gu, Daejeon 305-701, Republic of Korea) Hybridization of Top-Down and Bottom-Up approach for Sublithographic Dimension
14. Top-down meets bottom-up	Poster Session C	Mark Stoykovich (mark.stoykovich@colorado.edu, Department of Chemical and Biological Engineering University of Colorado – Boulder Campus Box 424, ECCH 136 Boulder, Colorado 80309-0424) Block copolymer self-assembly for nanofabrication: The importance and characterization of interfacial roughness between copolymer domains
April 29, 2010		
3:30-4:10	keynote	Fullerene Nanostructures Track Chair Jie Liu, Department of Chemistry, Duke University, Durham, NC, j.liu@duke.edu Antonio Castro Neto (neto@bu.edu, Department of Physics Boston University 590 Commonwealth Avenue Boston, MA 02215) Drawing conclusions from Graphene
4:10-4:30	Contributed talk	Weiwei Zhou (wz21@duke.edu, 124 Science Dr, 2246 FFSC Department of Chemistry, Duke University, Durham, North Carolina 27708) Orthogonal Orientation Control of Carbon Nanotube Growth
4:30-4:55	Invited talk	Bruce Hinds (bjhinds@engr.uky.edu, 177 Anderson Tower, CME-0046 University of Kentucky Lexington KY 40506-0046) Highly efficient electro-osmotic flow through carbon nanotube membranes
5:00-5:25	Invited talk	Mark Hersam (m-hersam@northwestern.edu, Department of Materials Science and Engineering Northwestern University 2220 Campus Drive Evanston, IL 60208-3108) Preparation, characterization, and application of monodisperse carbon-based nanomaterials
5:25-5:50	Invited talk	Sivaram Arepalli (sivaram.arepalli@gmail.com, Department of Energy Science, Sungkyunkwan University, Suwon 440-746, South Korea) Selectivity of CNT Growth by PLV Technique

April 29, 2010 6:15-7:15 pm

Poster Session C, sushi reception

09. Self-assembled surface chemistry	Poster Session C	Tao Ye (tao.ye@ucmerced.edu, School of Natural Sciences University of California 5200 N. Lake Rd Merced, CA 95343) Nanoscale measurement and manipulation of DNA at electrochemical interfaces
09. Self-assembled surface chemistry	Poster Session C	Ali Coskun (coskun@northwestern.edu, 2145 Sheridan Road, Department of Chemistry, Northwestern University 60208, Evanston, IL, USA) Molecular-Mechanical Switching at the Nanoparticle-Solvent Interface
09. Self-assembled surface chemistry	Poster Session C	Risheng Wang (rw2399@columbia.edu, Columbia University) Bio-functionalization of Nanopatterned Surfaces and their Integration with DNA Molecules and Nanostructures
10. Principles and Theory	Poster Session C	Viresh Thusu (vt10@duke.edu, 401 Archdale Drive, Apt #803 Durham, NC 27707) Sequential Self-Assembly and the Impact of Assembly Order
10. Principles and Theory	Poster Session C	Matthew Patitz (mpatitz@cs.iastate.edu, 2305 Northwestern Ave. Ames, IA 50010) Fuzzy Temperature: A New Model for Fault Tolerance in Tile Self-Assembly
10. Principles and Theory	Poster Session C	Promita Chakraborty (promita9@cs.vt.edu, 509 Southgate Dr Blacksburg VA 24060. USA) A Tangible Interactive Platform to Support the Understanding of the Interactions in Amino Acids
11. Viral Self-assembly	Poster Session C	Prerna Kaur (prernakaur_21@yahoo.com, Hunter College 695 Park Ave Hunter North Building Chemistry Department Room1319 New York NY-10065.) 3D Self-Assembly of Peptide Nanowires into Micron-Sized Crystalline Cubes with Nanoparticle Joints
13. Self-assembled DNA nanostructures Fri.	Poster Session C	Fumiaki Tanaka (fumi95@is.s.u-tokyo.ac.jp, Science Building No.7, Department of Computer Science, Graduate School of Information Science and Technology, University of Tokyo, 7-3-1 Hongo, Bunkyo-ku, Tokyo 113-8656, JAPAN.) Towards a controllable 3D DNA nanostructure
13. Self-assembled DNA nanostructures Fri.	Poster Session C	Suchetan Pal (spal2@asu.edu, Suchetan Pal Center for Single Molecule Biophysics, Biodesign Institute, 1001 S. McAllister Ave. Tempe, AZ 85287-5601, 480-727-8570.) Stable silver nanoparticle–DNA conjugates for directed self-assembly of discrete silver nanoparticle and silver-gold nanoparticle structures on DNA origami
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14. Top-down meets bottom-up	Poster Session C	Dong Ok Shin (juventuss@kaist.ac.kr, Dept. of Materials Science & Engineering Soft Nanomaterials Lab. 335 Hwahangno (373-1 Guseong-dong), Yuseong-gu, Daejeon 305-701, Republic of Korea) Hybridization of Top-Down and Bottom-Up approach for Sublithographic Dimension
14. Top-down meets bottom-up	Poster Session C	Mark Stoykovich (mark.stoykovich@colorado.edu, Department of Chemical and Biological Engineering University of Colorado – Boulder Campus Box 424, ECCH 136 Boulder, Colorado 80309-0424) Block copolymer self-assembly for nanofabrication: The importance and characterization of interfacial roughness between copolymer domains

April 30, 2010 7:30-8:15 am

Breakfast

April 30, 2010

Track on Self-assembled DNA Nanostructures, track chair Nadrian Seeman (Hao Yan Department of Chemistry and Biochemistry Arizona State officiating)

8:15-8:40

Invited talk

Marya Lieberman (mlieberm@nd.edu,) Getting DNA origami on track: guided deposition on SAMs.

8:40-9:05

Invited talk

Yan Liu (yan_liu@asu.edu,) TBD

9:05-9:30

Invited talk

Birgitta Knudsen (mailto:brk@mb.au.dk, Aarhus) Nano-scale DNA cages: structural and functional properties of the single-stranded linker regions, and Functional Properties of the Single-Stranded Linker Regions

9:30-9:55

Invited talk

Hiroshi Sugiyama (hs@kuchem.kyoto-u.ac.jp, Department of Chemistry, Graduate School of Science, Kyoto University, Kyoto 606-8502, JAPAN) Observation and Control of Enzymatic Reaction in DNA Frame

April 30, 2010

Top-down meets bottom-up; Track chair Mark Stoykovich, Department of Chemical and Biological Engineering, University of Colorado, Boulder, CO, mark.stoykovich@colorado.edu

10:10-10:50

keynote

Professor Ahmed Busnaina
Director of Nanoscale Science and Engineering Center for High-rate Nanomanufacturing
Northeastern University
Email: busnaina@coe.neu.edu
Tel: 617-373-2992

10:50-11:10

Contributed talk

Christopher Buu (ChristopherBuu@boisestate.edu, 1910 University Dr. Boise, ID 83725-2075) Radial Dielectrophoretic Trap for Trapping Microparticles

11:10-11:35

Invited Talk

Armin Knoll (ark@zurich.ibm.com, IBM Research GmbH Saeumerstr. 4 8803 Rueschlikon Switzerland) Direct Write 3-Dimensional Nanopatterning using Probes

11:35-12:00

Invited Talk

Sang Ouk Kim (sangouk.kim@kaist.ac.kr, Materials Science & Engineering, KAIST 305-701 Daejeon, Republic of Korea) Directed Molecular Assembly of Soft Nanomaterials

12-12:30

Grab 'n go lunch

4-???

hot tub + conference goers + munchies
