

2010 Northeast Bioengineering Conference Schedule

Friday, March 26, 2010	
12:00 PM – 6:00 PM	Registration Location: Low Library
12:45 PM – 6:00 PM	NYC Emerging Medical Technologies Showcase Location: Low Library
12:45 PM – 12:50 PM	Welcoming Remarks Orin Herskowitz, VP, Intellectual Property & Technology Transfer, Columbia Technology Ventures
12:50 PM – 1:15 PM	State of the MedTech Industry 2010 David Roman, Vice-President, Medical Technology - Global Investment Research Division, Goldman Sachs
1:15 PM – 4:15 PM	Session T1: Emerging Company/Technology Pitches
1:15 PM – 1:30 PM	Albert Einstein College of Medicine Janis Peck, MBA Prenatal Screening Test for Chromosomal Abnormalities (Susan Gross, MD), Vascular Health Diagnostic (Arnold Melman, MD), Diagnostic for Hepatic Insulin Resistance and Prognostic Biomarker for Type 2 Diabetes (David Silver, PhD), Diagnostic for Hemolytic Diseases (Edward Burns, MD)
1:30 PM – 1:45 PM	City University of New York Marom Bikson, PhD Method to Reduce Tissue Heating Caused by Implantable Medical Devices Zaghloul Ahmed, PhD Electrical Stimulation Device for Motor Function Recovery Robert Engel, PhD Antimicrobial Working Surfaces on Solid Objects and Fabrics
1:45 PM – 2:00 PM	Columbia University Judah Weinberger, MD PhD A Hemodialysis Access Flow-Limitation Device Ilan Reich, CEO, Vizio Medical LLC A Portable Device to Treat Hypertension in Dialysis Patients
2:00 PM – 2:20 PM	Networking Break
2:20 PM – 2:35 PM	Cornell University Samie Jaffrey, MD PhD A Novel Platform for the Rapid Production of Fluorescent Sensors
2:35 PM – 2:50 PM	Hospital for Special Surgery Robert Hotchkiss, MD Drug Delivery System for Treatment for Orthopedic Conditions Suzanne Maher, PhD Fiber-Hydrogel Composites for Soft Tissue Replacement
2:50 PM – 3:05 PM	Mount Sinai School of Medicine Zahi Fayad, PhD Atherocort - a Targeted Treatment of Atherosclerosis Using Liposomal Glucocorticoids
3:05 PM – 3:20 PM	Memorial Sloan-Kettering Cancer Center Samuel Singer, MD A Novel and Efficient Method for Fat-Free Imaging Prasad Adusumilli, MD Real-Time Intraoperative Detection of Tissue Hypoxia by a Novel Wireless Pulse Oximeter (WiPOX)
3:20 PM – 3:40 PM	Networking Break
3:40 PM – 3:55 PM	New York University Peter Walker, PhD Early Intervention Knee System (EIKS) Nandor Ludvig, MD PhD Hybrid Neuroprosthesis for the Treatment of Intractable Focal Epilepsy
3:55 PM – 4:10 PM	State University of New York Michael Poon, MD Stony Brook Acute Chest Pain Screening System (SBACPSS) Yi-Xian Qin, PhD Non-Invasive Integrated Ultrasound Diagnosis and Treatment System for Bone Loss and Fracture Healing
4:10 PM – 5:15 PM	Panel: "What it Takes to Fund, Build, and Sell MedTech in the Current Environment" Maria Gotsch, President & CEO, New York City Investment Fund (moderator) Timothy Howe, Founding Partner, CHL Medical Partners; Chris Silva, CEO, Allied Minds; Frank DeBernardis, Founding Partner, Nascent Enterprises
5:15 PM – 6:00 PM	Networking Cocktails & Poster Session of additional MedTech & BioTech opportunities
6:00 PM – 7:00 PM	NEBEC Keynote Speaker, Rebecca Richards-Kortum, Ph.D. (Rice University) "Bioengineering to Improve Global Health" Location: Low Library

Saturday, March 27, 2010

7:00 AM – 5:30 PM	Registration Location: Faculty House, Lobby	
7:00 AM – 9:00 AM	Continental Breakfast and Coffee Location: Faculty House, Presidential Ballroom	
8:00 AM – 8:10 AM	Welcome and Opening Remarks: Samuel Sia, Ph.D., Assistant Professor, Columbia University, Chair of NEBEC Roxie Smith, Vice-Provost of Columbia University, and Helen Lu, Ph.D., Associate Professor, Columbia University, Chair of the Society for Biomaterials Day Location: Faculty House, Presidential Ballroom	
8:10 AM – 8:55 AM	Keynote Lecture, David Kaplan, Ph.D., Professor, Tufts University, Sponsored by the Society for Biomaterials Location: Faculty House, Presidential Ballroom	
9:00 AM – 12:30 PM	Session A	
	A1: Biomaterials (Society for Biomaterials) Location: Schapiro Center, CEPSS, Davis Auditorium	A2: Biomedical Imaging Location: Faculty House, Presidential Ballroom
9:00 AM – 10:10 AM	<p style="text-align: center;"><u><i>Nano-biomaterials</i></u> Moderators: David Kaplan, Ph.D. and Henry Hess, Ph.D. <i>Invited Speakers</i> Lakshmi Nair, Ph.D., Assistant Professor, UConn Larry Bonnassar, Ph.D., Associate Professor, Cornell University <i>5-minute Student Presentations</i> Ashutosh Agarwal, Columbia University Yee-Shuan Lee, New Jersey Institute of Technology Lijuan Zhang, Brown University</p>	<p style="text-align: center;"><u><i>Diagnostic Imaging Techniques I</i></u> Moderator: Aaron Kyle, Ph.D., Columbia University <i>Invited Speaker</i> Xingde Li, Ph.D., Associate Professor, Johns Hopkins University <i>10-minute Student Presentations</i> Yao-Sheng Tung, Columbia University Auranuch Lorsakul, Columbia University Ludguier D. Montejo, Columbia University Jean Provost, Columbia University</p>
10:10 AM – 11:20 AM	<p style="text-align: center;"><u><i>Smart Biomaterials</i></u> Moderators: Samuel Sia, Ph.D. and Jeremy Gilbert, Ph.D. <i>Invited Speakers</i> Edward Botchwey, Ph.D., Assistant Professor, UVA John Fisher, Ph.D., Associate Professor, University of Maryland <i>5-minute Student Presentations</i> Matthew Hancock, Brigham & Women's Hospital Vivian Lee, Rensselaer Polytechnic Institute Xiuli Wang, Tufts University</p>	<p style="text-align: center;"><u><i>Biomedical Devices & Modeling</i></u> Moderator: Edward F. Leonard, Ph.D., Columbia University <i>Invited Speaker</i> Henry Hess, Ph.D., Associate Professor, Columbia University <i>10-minute Student Presentations</i> Baozhi Chen, Rutgers University Colin Roopnariane, Pennsylvania State University Arthur Paoella, Artisan Labs Yih-Choung Yu, Lafayette College</p>
11:20 AM – 12:30 PM	<p style="text-align: center;"><u><i>Cell-Biomaterial Interactions</i></u> Moderators: Chris Jacobs, Ph.D. and Lawrence Bonnassar, Ph.D. <i>Invited Speakers</i> Treena Arinze, Ph.D., Associate Professor, NJIT Liisa Kuhn, Ph.D., Assistant Professor, University of Connecticut <i>5-minute Student Presentations</i> Mevan L. Siriwardane, New Jersey Institute of Technology Shang-pin Kwei, Columbia University Yuk Kee Cheung, Columbia University</p>	<p style="text-align: center;"><u><i>Diagnostic Imaging Techniques II</i></u> Moderator: Truman Brown, Ph.D., Columbia University <i>Invited Speaker</i> Andreas Hielscher, Ph.D., Associate Professor, Columbia Univ. <i>10-minute Student Presentations</i> Jonghwan Lee, Columbia University Samiotaki Gesthimani, Columbia University Lili Yuan, Worcester Polytechnic Institute Michael A. Khalil, Columbia University</p>
12:30 PM – 1:30 PM	Lunch In Morningside Heights	
1:30 PM – 2:15 PM	Keynote Lecture, Jeremy Gilbert, Ph.D., Professor, Syracuse University Location: Presidential Ballroom	
2:15 PM – 3:00 PM	Keynote Lecture, Howard Stone, Ph.D., Professor, Princeton University Location: Presidential Ballroom	
3:05 PM – 5:30 PM	Session B	
	B1: Biomaterials (Society for Biomaterials) Location: Schapiro Center, CEPSS, Davis Auditorium	B2: Public Advocacy (AIMBE) Location: Faculty House, Presidential Ballroom
3:05 PM – 4:20 PM	<p style="text-align: center;"><u><i>Biomaterials Imaging & Characterization</i></u> Moderators: Elisa Konofagou, Ph.D. and Adele Boskey, Ph.D. <i>Invited Speakers</i> Adele Boskey, Ph.D., Hospital for Special Surgery Yi-Xian Qin, Ph.D., Professor, SUNY - Stony Brook <i>5-minute Student Presentations</i> Jun Qiu, Columbia University Joseph S. Hersey, Rensselaer Polytechnic Institute Jessica Isaacs, Drexel University</p>	<p style="text-align: center;"><u><i>Panel: "Advocating for the Future of Engineering"</i></u> Van C. Mow, Chair of the Department of Biomedical Engineering, Columbia University Miriam Cortes-Camirero, Executive Director, Society for Biological Engineering (division of AIChE) Steven Dixon, Masters Student, Mount Sinai School of Medicine</p>
4:20 PM	Coffee available in CEPSS, Carleton Lounge, and Uris Hall	
4:20 PM – 5:30 PM	<p style="text-align: center;"><u><i>Tissue Engineering</i></u> Moderators: Helen Lu, Ph.D. & Gordana Vunjak-Novakovic, Ph.D. <i>Invited Speakers</i> Jason Burdick, Ph.D., Assistant Professor, UPenn Gordana Vunjak-Novakovic, Ph.D., Columbia University <i>5-minute Student Presentations</i> Caitlin Martin, University of Connecticut Kara Spiller, Drexel University Xiuli Wang, Tufts University</p>	
5:30 PM – 7:00 PM	Concurrent Poster Sessions: P1, P2, P3, P4 Location: Faculty House, Seminar Room; Mudd Building, Carleton Lounge; and Uris Hall	
7:00 PM – 8:00 PM	Dinner Reception and Biomaterials Awards Location: Faculty House, Presidential Ballroom	

Sunday, March 28, 2010

8:30 AM – 12:00 PM	Registration Location: Lobby, Faculty House	
9:00 AM – 10:20 AM	Session C	
	C1: Biomechanics Location: Schapiro Center, CEPSR, Davis Auditorium	C2: Image Processing and Analysis Location: Faculty House, Presidential Ballroom
9:00 AM – 10:20 AM	<u><i>Solid Biomechanics</i></u> Moderator: Hayden Huang, Ph.D., Columbia University <i>Invited Speakers</i> Susannah Fritton, Ph.D., Associate Professor, CUNY - CCNY Barclay Morrison, Ph.D., Associate Professor, Columbia University <i>10-minute Student Presentations</i> Benjamin S. Elkin, Columbia University Perry Yin, Columbia University Florian Herzog, Columbia University Shripad Joshi, CUNY - City College of New York	<u><i>Neural Imaging, Signal Analysis, and Image Processing</i></u> Moderator: Elizabeth Hillman, Ph.D., Columbia University <i>Invited Speakers</i> Lucas Parra, Ph.D., Professor, CUNY - City College of New York Michael Miller, Ph.D., Professor, Johns Hopkins University <i>10-minute Student Presentations</i> Soha Saleh, New Jersey Institute of Technology Eun H Kim, New Jersey Institute of Technology Erin LaBarge, University of Rhode Island Yaofeng Yue, University of Pittsburgh
10:20 AM – 11:00 AM	Coffee Break and Exhibition	
11:00 AM – 12:20 PM	Session D	
	D1: Biomechanics Location: Schapiro Center, CEPSR, Davis Auditorium	D2: Image Processing and Analysis Location: Faculty House, Presidential Ballroom
11:00 AM – 12:20 PM	<u><i>Fluid Biomechanics</i></u> Moderator: Clark Hung, Ph.D., Columbia University <i>Invited Speakers</i> John Tarbell, Ph.D., Professor, CUNY - City College of New York Danny Bluestein, Ph.D., Professor, SUNY - Stony Brook <i>10-minute Student Presentations</i> Steven C. Persak, The Cooper Union M. Mehdi Salek, University of Calgary (Canada) D.A. Peter, SUNY - Stony Brook	<u><i>Imaging of Biomaterials</i></u> Moderator: Barclay Morrison III, Ph.D., Columbia University <i>Invited Speakers</i> Irene Georgakoudi, Ph.D., Associate Professor, Tufts University Elizabeth Hillman, Ph.D., Assistant Professor, Columbia University <i>10-minute Student Presentations</i> Michael Lamprecht, Columbia University Limary M Cancel, CUNY - City College of New York Jie Fan, CUNY - City College of New York
12:20 PM – 1:00 PM	Box Lunch Location: Faculty House, Seminar Rooms	
1:00 PM – 2:00 PM	Panel: "Crystal Ball for the Future of Bioengineering" - Van C. Mow, Ph.D., Professor and Chair of the Department of Biomedical Engineering, Columbia University; Semahat Demir, Ph.D., Program Director of Biomedical Engineering at National Science Foundation, and Philippe Chambon, Ph.D., Managing Director at New Leaf Ventures Moderator: Gerard Ateshian, Ph.D., Professor, Columbia University Location: Faculty House, Presidential Ballroom	
2:00 PM – 2:40 PM	Keynote Lecture, Semahat Demir, Ph.D., NSF Location: Faculty House, Presidential Ballroom	
2:40 PM – 2:45 PM	Closing Remarks: Samuel Sia, Ph.D., Assistant Professor, Columbia University, Chair of NEBEC, and Mort Friedman, D.Sc., Vice-Dean, The Fu Foundation School of Engineering and Applied Science, Columbia University Location: Faculty House, Presidential Ballroom	
2:40 PM – 2:50 PM	Announcement of Student Awards by Semahat Demir and Mort Friedman Location: Faculty House, Presidential Ballroom	
Adjournment of the 2010 NEBEC		