# Conference Registration Form

**Conference Date:** April 3 – 5, 2009  
**Conference Site:** Polytechnic Institute of NYU  
5 Metrotech Center, Brooklyn, NY 11201

## Attendee Information

| Name: |  
| Title: |  
| Affiliation: |  
| E-mail: |  
| Company: |  
| Address: |  
| State/Province: |  
| Zip/Postal Code: |  
| Phone: |  
| Country: |  

Please complete this form and mail or Fax to:  
Subrata Saha, Ph.D., Conference Chair  
Department of Orthopaedic Surgery & Rehabilitation Medicine  
SUNY Downstate Medical Center  
450 Clarkson Ave., Box 30  
Brooklyn, New York 11203  
Office: 718-613-8652  
Fax: 718-270-3983

## Registration Fees

<table>
<thead>
<tr>
<th>Registration Fee</th>
<th>Before March 1st, 2009</th>
<th>After March 1st, 2009</th>
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<tbody>
<tr>
<td>Registration Fee</td>
<td>$150.00</td>
<td>$200.00</td>
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<tr>
<td>*One-day registration</td>
<td>$100.00</td>
<td>$150.00</td>
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<tr>
<td>*Student registration</td>
<td>$70.00</td>
<td>$90.00</td>
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<tr>
<td>Guest Banquet Ticket</td>
<td>$50.00</td>
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*(does not include banquet)*  

Total Amount Enclosed:  

**Payment**  

- Check payable to: HSCB Foundation  
- Credit Card  
  - American Express  
  - Mastercard  
  - Visa  

Card Number:  
Expiration Date:  
Cardholder Name:  
Signature:  

*or go to website:*  
http://www.downstate.edu/grad/bioethics2009.html  
http://www.poly.edu/graduate/bioethics2009/
Welcome from the Conference Chair

I am pleased to welcome you to the Fifth International Conference on Ethical Issues in Biomedical Engineering. Our goal is to bring together biomedical engineers, clinicians, research scientists, philosophers, lawyers, students and representatives from industry to discuss the ethical issues that face us as we develop new implants, devices, drugs and to improve the treatments and the quality of life of our patients. The papers to be presented represent a broad spectrum of topics reflecting the exciting, but sometimes controversial nature of many of the new developments in biomedical engineering.

We are fortunate that the SUNY Downstate Medical Center and Polytechnic Institute of New York University have agreed to sponsor this conference. We are grateful for the financial support from other co-sponsoring institutions, the National Science Foundation, the Orthopaedic Research Society and several other companies.

Many people contributed to the success of this conference. I would like to thank the Local Program Committee, the authors, session moderators, panel members, and the keynote speakers. The abstracts from this conference and selected papers will be published in a special issue of the Journal of Long-Term Effects of Medical Implants that will be distributed at the conference.

I am convinced that you shall find this conference intellectually stimulating and a highly enjoyable experience. Welcome to Brooklyn, New York.

Subrata Saha

Subrata Saha, Ph.D., Conference Chair
Department of Orthopaedic Surgery & Rehabilitation Medicine
SUNY Downstate Medical Center
Brooklyn, New York 11203
Special Needs
In accordance with the Americans with Disabilities Act (ADA), SUNY Downstate Medical Center seeks to make this conference accessible to all. If you have a disability which might require special accommodations, please contact Dr. Subrata Saha, Phone: (718)-613-8652, Subrata.Saha@downstate.edu.

Needs Statement
The field of biomedical research leads to new treatment modalities and the leadership at SUNY Downstate Medical Center and Polytechnic Institute of New York University saw the need for a workshop to update the medical and scientific community in Brooklyn and the tri-state area of the ethical guidelines that need to be followed.

Educational Objectives
At the conclusion of this workshop, participants will:

• be aware of ethical guidelines for new potential treatment modalities
• be aware of ethical issues involved in clinical trials and animal experiments
• be aware of conflict of interest and regulatory issues for new devices

Target Audience
All practicing physicians, research scientists, physical therapists, professors, and students
Reception will be held at:
A The New York Marriott at the Brooklyn Bridge, 333 Adams Street, Brooklyn, NY 11201

Technical Programs will be held at:
B Pfizer Auditorium, Polytechnic Institute of New York University, 5 Metro Tech Center, Brooklyn, NY 11201

Site Map

Hotel Information
Located within Renaissance Plaza and across the street from Polytechnic Institute of New York University – located in Metro Tech, the New York Marriott at the Brooklyn Bridge is 5 minutes from Manhattan and the Financial District, with 9 major subway lines all within one block. The New York Marriott at the Brooklyn Bridge is the only full service hotel in Brooklyn. A block of rooms at the Marriott New York at the Brooklyn Bridge have been reserved at a special reduced rate of $209 per day for conference attendees during the conference. To receive this special rate, please mention “Ethics Conference” while booking the room. Please note that this special rate is valid until March 2009.

Call for Reservations:
Toll Free: (888) 436-3759
Phone: (718) 246-7000
Fax: (718) 222-6520
Website: http://brooklynmarriott.com
Saturday, April 4, 2009
Pfizer Auditorium, Polytechnic Institute of New York University,
5 MetroTech Center, Brooklyn, NY 11201

8:00am - 4:00pm Registration
The New York Marriott at the Brooklyn Bridge

9:00 – 9:15am Welcome & Introductions
Mr. John O’Connor,
Officer in Charge, State University of New York
Albany, NY 12246

John C. LaRosa, M.D.
President, SUNY Downstate Medical Center
Brooklyn, NY 11203

Erich Kunhardt, Ph.D.
Provost, Polytechnic Institute of NYU
Brooklyn, NY 11201

9:15 – 9:50am Keynote Address
Reflections on Morality, Ethics and Bio-Ethics Decisions
George Bugliarello, Ph.D.
President, Emeritus and University Professor
Polytechnic Institute of NYU, Brooklyn, NY 11201

9:50 – 10:00am Announcements
Subrata Saha, Ph.D.
Conference Chair
Research Professor & Director of Musculoskeletal Research
SUNY Downstate Medical Center, Brooklyn, NY 11203

10:00 – 10:30am Coffee Break

10:30 – 11am Stressful Ethical Issues in Therapy of Kidney Failure
Eli A. Friedman, M.D., M.A.C.P., F.A.C.P.
SUNY Downstate Medical Center, Brooklyn, NY 11203

11:00 – 12:15 Nanotechnology and Ethics
Co-Chairs
Herbert Voigt, Ph.D.
Boston University, Boston, MA 02215

Daniel Vallero, Ph.D.
Duke University, Pratt School of Engineering, Durham, NC 27708
11:00 Nanobiotechnology and Health Concerns
Wade L. Robison, Ph.D.
Rochester Institute of Technology, Rochester NY 14623

11:15 Drug Eluting Stents: Some Lessons for the
Ethics of Medical Nanotechnology
George J. Agich, Ph.D.
Bowling Green State University,
Bowling Green, OH 43403

11:30 Ethical, Legal and Social Issues in
Neurotechnology Research: Confronting the
Boundaries, Considering the Implications
James Giordano, Ph.D. and Dennis McBride, Ph.D.
Georgetown University Medical Center,
Washington, DC 20057

11:45 New Tools to Address Responsible Conduct of
Nanobiotechnological Research
Daniel Vallero, Ph.D.
Duke University, Pratt School of Engineering,
Durham, NC 27708

12:00 Ethical Challenges in Nanotechnology
Malay K. Banerjee, Ph.D.
Bengal Engineering & Science University,
Shibpur, Howrah, 711 103, India

12:15–1:30pm Panel Discussion & Lunch
Surgeon-Industry Interactions: Ethical Challenges

Co-Chairs
William Urban, M.D.
SUNY Downstate Medical Center, Brooklyn, NY 11203

William M. Mihalko, M.D., Ph.D.
University of Tennessee, School of Medicine,
Collierville, TN 38017

Panel Members
Timothy Wright, Ph.D.
Hospital for Special Surgery, New York, NY 10021

Stephen T. Onesti, M.D.
SUNY Downstate Medical Center, Brooklyn, NY 11203

Carl B. Paulino, M.D.
SUNY Downstate Medical Center, Brooklyn, NY 11203

John Engelhard, M.S., FAIMBE
Knowledge Ventures, LLC, Climax, NC 27233
<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenters</th>
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<tbody>
<tr>
<td>1:30</td>
<td>Improving the Quality of External Research Conducted by Drug/Device Manufacturers Through Industry-Supported, Publicly Administered Funding Mechanisms</td>
<td>Daniel F. Catanzaro, Ph.D., MBA, SUNY Downstate Medical Center, Brooklyn, NY 11203</td>
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<td>1:45</td>
<td>Ethical Safeguards for Industry Funded Research in an Academic Setting</td>
<td>Fred R. Nelson, M.D., Henry Ford Hospital, Dearborn, MI, 48202</td>
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<td>2:00</td>
<td>Research Ethics and the European Union</td>
<td>Mihali Kritikos, L.L.B., M.A., Ph.D., The University of Exeter, Devon, EX4 4QJ, UK</td>
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<td>2:15</td>
<td>Corporate Immunity After Riegel: The Need for Regulatory Reform of Product Liability Laws</td>
<td>Andrea K. Scott, Esq.,¹ and Warren S. Grundfest, M.D.,², FACS,¹Bioethics International Ltd., Los Angeles, CA 90077 and²UCLA, Los Angeles, CA 90024</td>
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<td>2:30</td>
<td>Medical Devices – Research, Development and Clinical Use Ethical Issues</td>
<td>V J. Rasquinha, M.D., V V. Rasquinha, M.D., and Subrata Saha, Ph.D., SUNY Downstate Medical Center, Brooklyn, NY 11203</td>
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<td>2:45</td>
<td>Animal Testing and Clinical Trials for the Subdural Hybrid Neuroprosthesis: Ethical Aspects in the Context of Human History</td>
<td>Nandor Ludvig, M.D., Ph.D., NYU Comprehensive Epilepsy Center, New York, NY 10016</td>
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3:00  Ethical and Legal Issues in Biomedical Research  
Milton Palat, D.D.S., J.D.  
NYU College of Dentistry, New York, NY 10010

3:15  An Ethical Analysis of Emerging Models of Consent for Genomics and Biobanking  
Kerry Bowman, Ph.D. and Maxwell J. Smith, B.A.  
University of Toronto JCB, Toronto, ON, M5G 1L4, Canada

3:30 – 4:00pm  Coffee Break

4:00 - 5:45pm  Health Care and Ethics  
Co-Chairs  
Robert Christensen, D.D.S., FAIMBE  
TMJ Implants, Inc., Golden, CO 80401  
M. Guven Yalcintas, Ph.D.  
SUNY Research Foundation, Albany, NY 12201

4:00  US Healthcare in Crisis: A Case for Treating the “Perfect Storm” with the VHA Model  
Jeffrey P. Weiss, M.D., FACS  
SUNY Downstate Medical Center, Brooklyn, NY 11203

4:15  Ethical Issues When Insurance Companies Falsely Label Certain Surgical Treatments as Experimental and Investigational  
Robert W. Christensen, D.D.S., FAIMBE  
TMJ Implants, Inc., Golden, CO 80401

4:30  Epistemic Humility and Medical Practice  
Abraham P. Schwab, Ph.D.  
CUNY, Brooklyn College, Brooklyn, NY 11210

4:45  Seeing the Power Struggle Between Doctors, Lawyers and Patients Through a Foucauldian Point of View – A Need For Medical Liability Reform  
Karren Takamura, B.A  
JVL Research Center, Los Angeles, CA 90007

5:00  A Biomedical Approach as Part of a Comprehensive Strategy for Reducing Violent Crimes in Society  
D.C. Barinas, Ph.D. and M.C. Christie, Ph.D.  
Florida International University, Miami, FL 33174
5:15 Biomedical Engineers and Participation in Judicial Executions: Capital Punishment as a Technical Problem
D. John Doyle, M.D., Ph.D., FRCP
Cleveland Clinic Lerner College of Medicine of Case Western Reserve University, Cleveland, OH 44195

5:30 Is Direct to Consumer Marketing of Orthopaedic Medical Devices, Helpful or Harmful to Patients and Their Relationships With Their Surgeons?
William M. Mihalko, M.D., Ph.D.
University of Tennessee, Campbell Clinic Orthopaedics, Knoxville, TN 37996

5:45 Social and Ethical Implications of Government Censorship on Science and Technology
Luis Kun, Ph.D
National Defense University, Washington, DC 20319

6:00 Ethical Considerations Regarding Direct-To-Consumer Advertising of Medical Devices
Maheep Sohal, B.A. William Urban, M.D. and Subrata Saha, Ph.D.
SUNY Downstate Medical Center, Brooklyn, NY 11203

6:15 Ethics, Athletes and the Team Physician
Larry Bowman, M.S. M.D.
Blue Ridge Orthopedics, Clemson, SC 29678

6:30 Is Euthanasia a Problem for Ayurveda
Sudarsan Padmanabhan, Ph.D. and Sreekumar Nellickapilly, Ph.D.
Indian Institute of Technology Madras, Chennai, 600 036, India

7:00 Banquet
Polytechnic Institute of New York University, Brooklyn, NY 11201

Sunday, April 5, 2009
Pfizer Auditorium, Polytechnic Institute of New York University, Brooklyn, NY 11201

8:00am-4:00pm Registration
8:15 – 9:00am  
Keynote Address:  
**Ethics in Medical Research**  
William Hendee, Ph.D.  
Emeritus Distinguished Professor of Radiology, Radiation Oncology, Biophysics and Community and Public Health  
Medical College of Wisconsin, Milwaukee, WI 53226

9:00 – 10:00am  
**Biology and Ethics**  

<table>
<thead>
<tr>
<th>Co-Chairs</th>
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</table>
| Subrata Saha, Ph.D.  
SUNY Downstate Medical Center, Brooklyn, NY 11203  
Harold P. Sjursen, Ph.D.  
Polytechnic Institute of NYU, Brooklyn, NY 11201  |

9:00  
**The Ethics of Biological Engineering**  
Harold P. Sjursen, Ph.D.  
Polytechnic Institute of NYU, Brooklyn, NY 11201

9:15  
**Bioethics: An Evolutionary Perspective**  
Pamela Saha, M.D.  
SUNY Downstate Medical Center, Brooklyn, NY 11203

9:30  
**The Ethics of Profit**  
Richard Treharne, Ph.D.  
University of Tennessee, Memphis TN 38163

9:45  
**Ethical Issues in Male Contraceptive Implant Studies**  
Sujoy K. Guha, M.B.B.S., Ph.D.  
School of Medical Science and Technology, Indian Institute of Technology, Kharagpur, 721 302, India

10:00 – 10:30am  
**Coffee Break**

10:30 –12:15pm  
**Advances in Biomedical Technology and Ethical Concerns**  

<table>
<thead>
<tr>
<th>Co-Chairs</th>
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| Susan Schwartz-Giblin, Ph.D.  
SUNY Downstate Medical Center, Brooklyn, NY 11203  
Michael Zenilman, M.D.  
SUNY Downstate Medical Center, Brooklyn, NY 11203  |

10:30  
**Neural Engineering: The Ethical Challenges Ahead**  
Alena M. Buyx, M.D.¹, M.A. and Bert Gordijn, Ph.D.²  
¹Harvard Medical School, Boston, MA 02115  
²Dublin City University, Dublin 9, Ireland
10:45  **Come Fly with Me: A Critique of Andrew Stark’s Proposed Restriction on Biomedical Technology**  
Felicia Nimue Ackerman, Ph.D.  
Brown University, Providence, RI 02912

11:00  **The Ethics of Medical Device Safety**  
Timothy J. Kriewall, Ph.D.  
Kern Family Foundation, Waukesha, WI 53189

11:15  **Bioethics in a Health-Grid**  
Chun-His Huang, Ph.D.  
University of Connecticut, Storrs, CT 06269

11:30  **Ethical Challenges with the Development of Biotechnology-Derived Allergy Therapeutics**  
Jason Behrmann, Ph.D.  
University of Montreal, Montreal (Quebec), H3T 1J4, Canada

11:45  **Personal Identity (PI), Brain Transplantation and Intersex Surgery**  
Farrokh B. Sekaleshfar, M.B.B.S.  
University of Manchester, Manchester, M13 9PL, UK

12:00  **Future of Implantable Neuroprosthetic Devices: Ethical Dilemmas**  
Pratik Y. Chhatbar, M.B.B.S. and Subrata Saha, Ph.D.  
SUNY Downstate Medical Center, Brooklyn, NY 11203

12:15 – 1:15pm  **Lunch and Invited Talk**

12:30 – 1:00  **Translating Evidence from the Technical to the Social for Regulatory Approval**  
Janice Graham, Ph.D.  
Dalhousie University, Halifax, NS, B3H 3J5, Canada

1:15 – 2:45pm  **Biomedical Ethics and Education**

**Co-Chairs**  
Luis Kun, Ph.D.  
National Defense University, Washington, DC 20319

Subrata Saha, Ph.D.  
SUNY Downstate Medical Center, Brooklyn, NY 11203

1:15  **Using Evolution to Prime Debates in Bioengineering Ethics Courses**  
Howard Winet, Ph.D.  
UCLA, Los Angeles, CA 90024
1:30  Ethics and Biomedical Engineering for the 21st Century
Monique Frize, Ph.D.
Carleton University Ottawa, ON, K1S 5B6, Canada
University of Ottawa, Ottawa, ON, K1N 6N5, Canada

1:45  Diversity, Ethical Thinking and Learning Society
Kalle Levon, Ph.D.
Polytechnic Institute of NYU, Brooklyn, NY 11201

2:00  How the Science Of Complexity Challenges The Way We Do Ethics
George Khushf, Ph.D
University of South Carolina, Columbia, SC 29208

2:15  New Ethical Paradigms for the 21st Century
George D. Catalano, Ph.D.
SUNY at Binghamton, Binghamton, NY 13902

2:30  Intuitive Responses and Reasoned Arguments: Regurgitating the Yuk Factor
Niall W.R. Scott, Ph.D.
University of Central Lancashire,
Preston Lancashire, PR1 2HE, UK

2:45 – 3:15pm  Coffee Break

3:15 – 5:30pm  Ethical Issues in Biomedical Engineering
Co-Chairs
Wade Robison, Ph.D.
Rochester Institute of Technology,
Rochester, NY 14623

Warren Grundfest, M.D., FACS.
UCLA, Los Angeles, CA 90024

3:15  Ethical Implications of New Neuroscience Techniques As Applied to Homeland Security
Kenneth R. Foster, Ph.D.
University of Pennsylvania, Philadelphia, PA 19104

3:30  How Much Information Should We Provide the Public About Exposure to Radiofrequency Energy from Mobile Phones?
Kenneth R. Foster, Ph.D.
University of Pennsylvania, Philadelphia, PA 19104
A Clinical Trial of an Advanced Diagnostic Biomedical Device for Epilepsy Patients
Patricia A. Broderick, Ph.D.¹,²,³, Werner K. Doyle, M.D.³, Steven V. Pacia, M.D.¹, Ruben I. Kuzniecky, M.D.¹, Orrin Devinsky, M.D.¹ and Edwin H. Kolodny, M.D.¹
¹CUNY Medical School, Sophie Davis; ²New York University Langone Medical Center; ³New York University Comprehensive Medical Center, NY 10031

Good Rum, Good Captain, Good Ship - How the Consent for Biomedical Devices and Implants can be Transformed from an Event to a Process by the Surgeon Scientist
Luke P. Brewster, M.A., M.D., Ph.D.¹ and Howard P. Greisler, M.D., FACS²
¹Loyola Univ. Med. Center, Maywood, IL 60153
²Edward J. Hines Jr. VA Hospital, Hines, IL 60141

Burden of Medical Education Affecting Ethics of Medical Treatment?
Anindya Deb, Ph.D
Indian Institute of Science, Bangalore, 560 012, India

Human Egg Markets: Ethical Questions on Egg Donation
Ana Lita, Ph.D.
Appignani Bioethics Center, New York, NY 10017

The Case for the Establishment of a Code of Ethics to Govern the Frivolous use of Forensic Biomechanical Testimony to Resolve Legal Issues Involving Alleged Work-Related Musculoskeletal Disorders
Daniel J. Schneck, Ph.D.
Virginia Tech, Christiansburg, VA 24068

The Law(s) of Unexpected Consequences and the Ethics of Cultured Meat
M.A. Benjaminson, Ph.D., J.A., Gilchriest, Ph.D. and M.B. Madigan, Ph.D.
Touro College School of Health Sciences, Bay Shore, NY 11706

Ethics in Dentistry: Changing Trends and Future Challenges
Anirudh Bhetala, B.D.S., M.S.
1Way Solutions Incorporation, Marietta, GA 30067
This conference is Co-sponsored or Endorsed by:

American Institute for Medical and Biological Engineering (AIMBE)
American Society for Bone and Mineral Research (ASBMR)
International Federation for Medical and Biological Engineering (IFMBE)
Sigma Xi, The Scientific Research Society
Orthopaedic Research Society (ORS)
SUNY Downstate Medical Center
  Office of the President
  School of Graduate Studies
  Department of Orthopaedic Surgery and Rehabilitation Medicine
Polytechnic Institute of New York University
Research Foundation of The City University of New York - City College
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Design: Department of Biomedical Communications