



SUNY
DOWNSTATE
Medical Center



*THE EIGHTH
INTERNATIONAL
CONFERENCE ON
ETHICS IN BIOLOGY
ENGINEERING
& MEDICINE*

APRIL 24-26, 2015

SUNY Downstate Medical Center
Department of Orthopaedic Surgery and Rehabilitation Medicine
450 Clarkson Avenue - Box 30,
Brooklyn, New York 11203

Design: Department of Biomedical Communications

SUNY DOWNSTATE MEDICAL CENTER

**THE EIGHTH INTERNATIONAL CONFERENCE ON ETHICS IN
BIOLOGY, ENGINEERING & MEDICINE**

SUNY Downstate Medical Center

All Attendees including Oral and Poster Presenters Need to Register

FULL ATTENDANCE

Registration Fee \$200 Student/Post-doc/Fellow \$70

1-DAY ATTENDANCE (April 24 or 25 or 26, 2015)

UNIQUE FEE for all. Please indicate Day

April 24 or April 25 or April 26, 2015 **\$150

** All 1-day registrations do NOT include a dinner ticket for the registrant.

Dinner tickets can be purchased individually.

EXTRA DINNER TICKETS (dinner takes place on **Saturday, April 25, 2015** at St. Francis College)

I want extra dinner ticket(s)

(check if applicable and indicate the number):

Dinner Ticket (for dinner attendees ONLY, 1-day participants -April 25 or 26-, and/or Guests)

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Department of Orthopaedic Surgery and Rehabilitation Medicine
450 Clarkson Avenue - Box 30,
Brooklyn, New York 11203
Email: subrata.saha@downstate.edu

Welcome from the Conference Chair

I am pleased to welcome you to the Eighth International Conference on Ethics in Biology, Engineering & Medicine. Our goal is to bring together biomedical engineers, scientists, clinicians, philosophers, lawyers, students and representatives from industry to discuss the ethical issues that face us as we make new advances in biology, engineering and medicine, and as we develop new implants, devices, and drugs to improve medical 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 advances in biology, engineering and medicine.

This conference is sponsored by SUNY Downstate Medical Center and St. Francis College. It is co-sponsored by the Research Foundation for SUNY, the American Institute for Medical and Biological Engineering, Sigma Xi, and several other societies, institutions, and companies.

Many people contributed to the success of this conference. I would like to thank the Keynote speakers, the authors, session moderators, panel members, and the staff. The abstracts from this conference and selected papers will be published in a special issue of the *International Journal of Medical Implants and Devices* that will be distributed at the conference. The authors are also encouraged to submit their papers for publication in *Ethics in Biology, Engineering and Medicine: An International Journal*. I am sure 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 St. Francis College 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 the development of new medical devices and new potential treatment modalities.
- Ethical issues involved in clinical trials and animal experiments.
- Conflicts of interest and regulatory issues for new devices.
- Research Integrity and Responsible Conduct of Research.

Target Audience

Engineers, Scientists, Physicians, Dentists, Lawyers, and graduate and undergraduate students.

Website

Online registration and latest program are available from
<http://www.downstate.edu/orthopaedics/bioethics/>

Hotel Information

Located within Renaissance Plaza and across the street from 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 largest 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 (plus tax) 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 April 2015. This hotel is within walking distance (about-2 blocks) from the St. Francis College where all the technical sessions will be held

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Friday April 24, 2015

8:00am-4:00pm **Registration**

8:00am **Continental Breakfast**

8:30am **Welcome & Introductions**

Pamela Sass, MD

Acting Dean, College of Medicine

SUNY Downstate Medical Center, Brooklyn, NY

Allen Burdowski, PhD

Dean

St. Francis College, Brooklyn, NY

8:45am **Announcements**

Subrata Saha, PhD,

Conference Chair

SUNY Downstate Medical Center, Brooklyn, NY

8:50-9:30am

Keynote I

Citizen-Scientists: Pursuing the Good in an Age of Discovery

Mildred Z. Solomon, EdD,

President, The Hastings Center, Garrison, NY

9:30-9:45am

Coffee Break

9:45-12:15pm

Ethical issues in Biomedical Engineering

Co-Chairs

Shankar M. Krishnan, PhD

Wentworth Institute of Technology, Boston, MA

TBA

9:45am

Why Bioengineers Cannot Sharply Distinguish Technical Questions of Feasibility from Ethical Questions of Permissibility

George Khushf

University of South Carolina, Columbia, SC

10:00am

3 Versions of Anticipatory Ethics for issues in Biomedical Engineering

Richard L. Wilson

University of Maryland at Baltimore County, Baltimore, MD

10:15am **Including Bio/Med Technologist in Ethical Discussion Concerning Innovative Products - Are the Available Platforms Appropriate?**
Ilana Kepten
Braude Engineering College, Karmiel, Isreal

10:30am **Empowering Researchers To Shape Medical Innovation**
Jennifer A. Nichols
University of Utah, Salt Lake City, UT

10:45am **The Ethics of Pharming: Engineering Design at the Cellular Level**
Abidemi O. Ologunde and Oyinlola O. Adeyanju
University of South Florida, Tampa, FL

11:00am **Use of Virtual Humans In Designing Vehicles for Occupant Safety**
Arunima Deb and Shreya Agarwal
Mandya Institute of Medical Science (MIMS), Mandya, Karnataka, India

11:15am **Insights Into the Effects of Surgical Fixations on Lumbar Spine- A Case-Based Study**
Gunti R. Srinivas¹, Malhar N. Kumar², Anindya Deb¹ and Subrata Saha³
¹ Indian Institute of Science, Bangalore, India
² Hosmat Hospital, Bangalore, India
³ SUNY Downstate Medical Center, Brooklyn, NY

11:30a **Longer Living Through Technology: In Favor of Life-Prolonging Biomedical Technology for Old People**
Felicia Nimue Ackerman
Brown University, Providence, RI

11:45am **Pervasive Technologies: Principles To Consider**
Christine Perakslis¹, Jeremy Pitt², Katina Michael³ and MG. Michael³
¹ Johnson & Wales University, Providence, RI
² Imperial College, London, United Kingdom
³ University of Wollongong, Wollongong, Australia

12:00pm **Ethics In Osteoporosis: The “Bare Bones” Of Osteopenia**
Loren Wissner Greene
NYU School of Medicine, New York, NY

12:15-1:15pm **Lunch**

1:15-2:00pm **Keynote II
Sticky Ethical Issues in Healthcare and Research: How We Got Here, Where We Are Going**
Gregory L. Eastwood, MD
President, SUNY Upstate Medical University, Syracuse, NY

2:00-3:15pm **Technology and Ethics I**
Co-Chairs Mark Stewart, MD, PhD
SUNY Downstate Medical Center, Brooklyn, NY
Adrian R.M. Upton,
MA, MB, B. Chir, LRCP, MRCS, MD
McMaster University Medical Center,
Hamilton, Canada

2:00pm **Bulletproof Humans: An Anticipatory Ethical Analysis of Bulletproof Skin**
Richard L. Wilson
University of Maryland at Baltimore County,
Baltimore, MD

2:15pm **“We Won’t Know What’s Going On Inside”:
Tissue Engineering Hidden Musculoskeletal Tissues**
Nancy Pleshko and Richard G. Spencer
Temple University, Philadelphia, PA

2:30pm **Brain-Computer Interfaces: Extending Embodiment, Reducing Stigma?**
Sean Aas and David Wasserman
National Institutes of Health, Bethesda, MD

2:45pm **Environmental Goods and Health Goods:
Ethical Issues of Fair Distribution**
Michael Lindquist
Western Michigan University, Kalamazoo, MI

3:00-3:30pm **Coffee Break**

3:30-5:00pm **Genomics and Stem Cells: Ethical Challenges**

Co-Chairs Gene R. Diresta, PhD, PE
NYU Polytechnic School Of Engineering,
Brooklyn, NY
TBA

3:30pm **Ethical and Therapeutic Challenges with the use of Induced Pluripotent Stem Cells (iPSCs)**
Glenn Monastersky
Rensselaer Polytechnic Institute, Troy, NY

3:45 **Genomic Privacy**
Mark Gerstein
Gerstein lab, New Haven, CT

4:00 **The Ethics Of Gene Editing Technologies In Human Stem Cells**
Michael W. Nestor ¹ and Richard L. Wilson ²
¹ The University of Maryland Medical System, Baltimore, MD
² University of Maryland, Baltimore County, MD

4:15 **The Relevance of Genetic Resources Governance to Synthetic Biology**
Catherine Rhodes
The University of Manchester, Manchester, United Kingdom

4:30 **Ethical Implications On ‘Creating Life’: The First Synthetic Cell**
Beena Jose and Binoy J. Pichalakkatt
Jesuit School of Theology of Santa Clara University, Berkeley, CA

4:45 **The Availability and Comprehensiveness of Patient Education to Counter the Premature Marking of Unproven Stem Cell Interventions (“Stem Cell Tourism”)**
Zubin Master ^{1,2}, Kelsey Robertson ², Daniel Fredrick ³, Christen Rachul ⁴ and Timothy Caulfield ²
¹ Albany Medical College, Albany, NY
² University of Alberta, Edmonton, AB
³ University of Albany SUNY, Albany, NY
⁴ Carleton University, Ottawa, ON

5:00 **Ethical Problems in Exome Sequencing in Research and Clinical Settings**
Elaine E. Englehardt¹ and Michael S. Pritchard²
¹ Utah Valley University, Orem, UT
² Western Michigan University, Kalamazoo, MI

5:15pm **The Goods of Health Care**
Wade L. Robison
Rochester Institute of Technology, Rochester, NY

5:30pm **The Ethical Conundrum of HPV-Associated Head and Neck Cancer**
Andrew G. Shuman
University of Michigan Medical School, Ann Arbor, MI

5:45pm **Is it Wrong to Live to a 100?**
Gregory E. Pence
University of Alabama at Birmingham, Birmingham, AL

6:00pm **Ebola Virus Disease (EVD): A Case for Shared National and Global Responsibilities in Global Health Crisis**
Evaristus Chiedu Obi
Duquesne University, Pittsburgh, PA

6:15pm **The Ethics Of Transgender Inclusion In The Inhabitable Medical Space**
Ronica Mukerjee
St. Francis College, Brooklyn, NY

6:30-7:00pm **Reception**

7:00-8:30pm **Dinner**
Welcome: Sophie Berman, PHD
St. Francis College, Brooklyn, NY

5:15-6:15pm **Ethics of Health Care I**

Co-Chairs Alan S. Litsky, MD
Ohio State University, Columbus, OH
Kathleen Powderly, PhD
SUNY Downstate Medical Center, Brooklyn, NY

Saturday April 25, 2015

8:00- 9:15am **Mini-Symposium: Ethics issues in dentistry**

Co-Chairs Anthony T. Vernillo, DDS, MS
New York University, New York, NY

Divya Mehrotra, MDS, MNAMS,
King George Medical University, Lucknow, India

8:00am **Ethical Dilemmas in Orthodontics in a Dental School Environment**
Arun Urala
Manipal College of Dental Science, Manipal, India

8:15am **Dental Education Disparities in Chile: Ethical Challenges for Academic Progress in Chilean Dental Students**
Martin Pendola¹, Guido Jaramillo², Esteban Vargas³, Gonzalo Antiquero⁴, Mario Flores³, Subrata Saha¹.
¹ SUNY Downstate Medical Center, Brooklyn, New York.
² Universidad de Talca, Talca, Chile.
³ Universidad San Sebastian, Puerto Montt, Chile.
⁴ Universidad de la Frontera, Temuco, Chile

8:30am **Ethical Issues in Rendering Dental Care in Remote Areas.**
Shashidhar Acharya,
Manipal College of Dental Science, Manipal, India

8:45am **Genomics, Ethical Issues, and the Practice of Dentistry**
Alexander J. Schloss and Anthony T. Vernillo.
New York University College of Dentistry, New York, NY

9:00am **Global Health Gateway: Ethics in Global Health**
Shilpi S. Shah
Ahmedabad Dental College and Hospital, Gujarat, India

9:15 -9:45am **Coffee Break**

9:45-11:45am **HealthCare Ethics II**

Co-Chairs Charles Rosen, MD
University of California at Irvine, CA

William Urban, MD
SUNY Downstate Medical Center, Brooklyn, NY

9:45am **Medical Ethics & Health Policy in Military and Veterans Health**
CAPT Mark B. Lyles
U.S. Naval War College, Newport, RI

10:00am **Made-to-Measure Palliative Care. An Ethical Imperative for Growing Cultural Plurality in the US.**
Nathan A. Boucher
SUNY Downstate Medical Center, Brooklyn, NY

10:15am **Changing Attitudes of Doctors in the US; Do We Really Understand What Shared Decision Making Means and Are We Ready to Accept the Consequences of Those Decisions?**
David Dinhofer
NYC Technical College of CUNY, Brooklyn, NY

10:30am **Patients Are from Mars, Doctors are From Venus: Patients prefer Placebos and Paternalism; Doctors Don't**
Isabella Guajardo
University of California, San Francisco, CA

10:45am **Analysis of the Sunshine Act Data Pertaining to NY Orthopaedic Surgeons**
Karkare A.¹, Karkare N.¹, Saha S.²
¹ New York Orthopaedic Partners, Centereach, NY
² SUNY Downstate Medical Center, Brooklyn, NY

11:00am **Ethical Perspectives: Withdrawal of Life-Sustaining Treatments in Pediatrics**
Danielle Brigham, Shefali Karkare and Linda Siegel
Cohen Children Medical Center, New Hyde Park, NY

11:15am **A Diagnostic and Treatment Dilemma Osteoporosis**
Prashant S. Kota¹, Subrata Saha², Nakul V. Karkare¹
¹ New York Orthopaedic Partners, Centereach, NY
² SUNY Downstate Medical Center, Brooklyn, NY

11:30am **The Bioethics of Implantable Engineered Mechanisms in Orthopedic Surgery**
Sarani Chatterjee, Ravi Balasubramanian and Courtney Campbell
Ohio State University, Columbus, OH

11:45-12:45pm **Lunch**

12:45-1:30pm **Keynote III**
Ethics, Trust and Global Health in Healthcare Innovation: Could Ranking Pharmaceutical Companies Help?
Jennifer E. Miller, PhD
Founding Director of Bioethics International
Harvard University, Boston, MA
Duke University, Durham, NC

1:30-2:30pm **BIOEthics**
Co-Chairs: Sophie Berman, PhD
St. Francis College, Brooklyn NY

Mankad V. Kamath, PhD, PEng
Mc Master University, Hamilton, ON, Canada

1:30pm **Ethics as Analysis and Ethics as Feelings: The Interplay of Cognition and Emotion on Resolving Ethical Issues in Biology, Engineering and Medicine**
William E. Kastenber
University of California, Berkeley, CA

1:45pm **Crowdsourcing Ethics: A Social Media Platform for Ethics Across the Curriculum**
K. Smith
Clemson University, Clemson, SC

2:00pm **Mitochondrial Disease and Three-Genome Babies: The Slippery Slope into Human Gene Modification**
Sheldon Krinsky
Tufts University, Boston, MA
Brooklyn College, Brooklyn, NY

2:15pm **Biomedical Ethics and Legal Perspectives**
Bijayesh Haldar, Bishnanand Dubey, Durg Vijay Rai
Shobhit University, Gangoh, Saharanpur, UP, India

2:30-3:15pm **Ethics Education**
Co-Chairs: Joo L. Ong, PhD
University of Texas at San Antonio, San Antonio, TX

Falguni Sen, PhD
Fordham University, New York, NY

2:30pm **Teaching Ethics in Biomedical Engineering: A Joint-Venture Approach**
Xavier Jackson, Zachary Jasenky, Vivian Liang, Melvin Moore, Jake Rogers, Geoffrey Pfeiffer, Kristen Billar.
Worcester Polytechnic Institute, Worcester, MA

2:45pm **Fact: It is Unlawful to Teach ID or Creationism as Science in a Tax-Supported School. Opinion: It is Also Unethical.**
Howard Winet
University of California, Los Angeles, CA

3:00pm **Unheard Voice of Willowbrook: A Bioethics Education Perspective on New York's Infamous State School, 1947-1987**
Obiora N. Anekwe
Columbia University, New York, NY

3:15pm **Ethical Considerations Regarding Informed Consent Disclosure in a Resident Training Program**
James P. Gurtowski and Adam Bitterman
Hofstra North Shore-LIJ School of Medicine at Hofstra University, Hempstead, NY

3:30-4:00pm **Coffee Break**

4:00-5:30pm **BIOEthics II**
Co-Chairs: Micrea Leabu, PhD
University of Bucharest, Bucharest, Romania

Ancuta Augustina Gheorghisan-Galateanu, PhD
University of Medicine and Pharmacy, Bucharest, Romania

4:00pm **Brain Stimulation for Pediatric Treatment Versus Enhancement: Implications for The Moral Permissibility of Interventions in Children**
Hannah Maslen
University of Oxford, Oxford, United Kingdom

4:15pm **Ethical Basis for Patient Centered Health Information Technology**
Sabatini Monatesti¹, Stephen Beller² and David Dinhofer³
¹ ES enterprises Inc., Berwick, PA
² Croton-on-Hudson, NY
³ CityTech CUNY, Brooklyn, NY

4:30pm **The Physician: Between Ethics and Health System**
Constantin Ovidiu Gheorghisan-Galateanu and Ancuta Augustina Gheorghisan-Galateanu
University of Medicine and Pharmacy, Bucharest, Romania

4:45pm **Special Obligations in Medical Contexts: The Case of Patients**
Jörg Lösche
Bern University, Bern, Switzerland

5:00pm **Personalized Considerations for patient Information – When One Size Doesn't Fit All**
Yalini Senathirajah
SUNY Downstate Medical Center, Brooklyn, NY

5:15pm **Why and How to Specifically Apply Ethics to Various Pathologies?**
Mircea Leabu
University of Bucharest, Bucharest, Romania

5:30-6:30pm **Technology And Ethics II**

Co-Chairs: Luis Kun, PhD
Washington, DC

Jafar Vossoughi, PhD
University of Maryland, College Park, MD

5:30pm **The Ethics of Physician Involvement in Developing -Lethal Weapons: Is it Hurtful or Healthful?**
Benjamin Drew
Harvard Medical School, Boston, MA

5:45pm **Research Into Big Data and Biomedical Research: Balancing Privacy and Medical Breakthrough**
Katherine Carpenter
University of Washington, Seattle, WA

6:00pm **Allergic to Modern Technology: What Are the Ethical Responsibilities of Society to Electrically Hypersensitive Individuals?**
Kenneth R. Foster
University of Pennsylvania, Philadelphia, PA

Sunday April 26, 2015

Workshop: Research Integrity and Responsible Conduit of Research

8:00-10:15am **Research integrity**

Co-Chairs Subrata Saha, PhD
SUNY Downstate Medical Center, Brooklyn, NY
TBA

8:00am **The Physician And The Medical Ethics Committee**
Arthur B. Chausmer
John Hopkins University School of Medicine, Baltimore, MD

8:15am **Data Misuse and Manipulation: Teaching New Scientists that Fudging the Data is Bad**
Evan D. Morris¹, Jenna M. Sullivan² and Anjelica L. Gonzalez¹
¹ Yale University, New Haven, CT
² inviCRO, LLC, Boston, MA

8:30am **How Does Collaboration Enhance or Impede Research Integrity in Translational Research? Views of Scientists in Clinical Translational Science Awards (ctsa) Programs**
Sarah McGraw
The Hastings Center, Garrison, NY

8:45am **Data Security, Privacy, Integrity and Inferability Determining Global to Precision Medicine**
Faisal Reza
Yale University School of Medicine, New Haven, CT

9:00am **Ethics Among Scientists in an International Context**
Kirstin RW Matthews, Elaine Howard Ecklund and Steve W. Lewis
Rice University, Houston, TX

9:15am **Informed Consent to Complex Genetic Research: Whole Genome Screening of Newborns**
Evelyne Shuster
Veterans Affairs Medical Center, Philadelphia, PA

9:30am **Ethical Issues in Conducting Psychological Research in Pediatric Population**
Shruti Shivakumar, and Vishal Shrishail Kudagi.
JSS Dental College and Hospital, Mysore, India

9:45am **When Bioethics and Engineering Ethics Collide: Security Vulnerabilities in Wearable and Implanted Health Technologies**
Katherine Carpenter and David Dittrich
University of Washington, Seattle, WA

10:00am **Similarities and Differences in Medical, Engineering, Professional and Research Ethics**
Irving P. Herman
Columbia University, New York, NY

10:15-10:45am **Coffee Break**

10:45-12:00pm **Panel Discussion: Research Integrity & Responsible Conduct of Research**

Panel Members: Mauli Agrawal, PhD, PE,
Vice President for Research at the University of Texas at San Antonio (UTSA), San Antonio, TX

Gilda Barabino, PhD
Dean of the Grove School of Engineering, at City College (CUNY), New York, NY

Joshua B. Toas, JD, CCEP, CCEP.I, CFE
Chief Compliance Officer and Assistant Secretary of the Research Foundation for SUNY Albany, Albany, NY

Donald Kornfeld, MD
Columbia University, New York, NY

12:00-1:00pm **Lunch**

1:00-2:15pm **Responsible Conduct of Research (RCR)**

Co-Chairs: TBA

TBA

1:00pm **Financial Conflict of Interest and Trust**
Josephine Johnston
The Hastings Center, Garrison, NY

1:15pm **The Ethics of Conducting Multinational Research and the Ethics of Research with Children**
Peter Loomer, Alexander J. Schloss and Jyoti Kansal
New York University College of Dentistry, New York, NY

1:30pm **Testing a TBL Curriculum for Effective RCR Education**
Michael F. Verderame, William L. Allen, Shane Connelly, Joshua Crites, Jeffrey Engler, Victoria Freedman, Cynthia W. Garvan, Paul Haidet, Joel Hockensmith, William McElroy, Erik Sander, Rebecca Volve and Wayne McCormack

1:45pm **Conflict of Interest Disclosure in Orphan Drug Research**
Daniel Patrone, Jen-Ting Wang, Melissa Haig, Rosemary Harris, Rebecca LeFebvre, Matthew Vedete, and Taylor Zelka
SUNY Oneonta, Oneonta, NY

2:00pm **Ethics in Medical Research. The Low Fat-Diet-Heart Hypothesis. First, How Much Harm Has Been Done?**
Richard David Feinman¹ and Sara M. Keough²
¹ SUNY Downstate Medical Center, Brooklyn, NY
² Maryland University of Integrative Health, Laurel, MD

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