



Stanford Bioethics

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State of the Center

As SCBE gears up for a strategic planning retreat, it is gratifying to look back five years to the presentation of SCBE's five year strategic plan to the Dean of the School of Medicine and realize that virtually all of the goals articulated in 2003, and even some additional ones, have been achieved.

RESEARCH: A major addition to SCBE has been the Program on Stem Cells in Society, with Chris Scott and Hank Greely at the helm. SCBE also received a P50 Center for Excellence grant from NHGRI in Ethical, Legal, and Social Implications Research, which established a Center for the Integration of Research on Genetics and Ethics, directed by Mildred Cho.

EDUCATION: Another addition has been the establishment of a very successful Scholarly Concentration in the MD program, which now includes over thirty 2nd through 5th year students in the Biomedical Ethics and Medical Humanities program. These students

have achieved incredible accomplishments, including book chapters and scholarly articles (some listed below). SCBE now contributes over 30 hours to the medical school curriculum, up from virtually none five years ago. SCBE has also taken responsibility for the Responsible Conduct of Research course, significantly revamping the curriculum into case-based, small discussion sections of approximately 20 students each, and received extremely good course evaluations.



CLINICAL ETHICS: The hospital ethics committee has expanded its activity to over 60 consultations per year at Stanford University Hospital and at the Lucile Packard Children's Hospital and SCBE faculty are instrumental in providing leadership in these consultations and in policy development (such as the Donation after Cardiac Death policy at SUH and the policy

on interactions with industry representatives). SCBE faculty also have established ethics teaching programs for medical residents and fellows in Pediatrics, Medicine, Surgery, and other subspecialties.

RESEARCH ETHICS: With funding from NIH and DOE, SCBE established a Benchside Ethics Consultation Service for biomedical researchers at Stanford and beyond. It has been highly successful and, as part of Stanford's efforts to win a Clinical and Translational Science Award from NIH, is being

integrated into other services such as biostatistics and bioinformatics consultation.

SCBE will be having a strategic planning retreat at the end of January to plan the next five years of success!



People News

Anne Crowe is SCBE's new Assistant Director. She brings over 10 years of research contracts and grant management experience to SCBE. Anne comes to us from UC Berkeley, where she helped run the California Center for Innovative Transportation. As Assistant Director there she helped the research group deploy the changeable message signs found on the state's freeways that indicate how long commutes are anticipated to be. She earned her BA from UC Santa Barbara and her MBA from University of San Francisco, and reports that she is enjoying the wonderful people and lush environment here at Stanford.

Teneille Brown, J.D., arrived at SCBE in August. She is an attorney who received her undergraduate degree in the History and Sociology of Science at the University of Pennsylvania (mcl BA, 2000) with a concentration in bioethics. While at Penn, she wrote an honors thesis on the ethics of elective cosmetic surgery and conducted HIV clinical research. She conducted research at the Penn Bioethics Center, and drafted a bill on genetic testing informed consent.

Teneille attended the University of Michigan law school (JD 2004), focusing on bioethics and medicine and the law. She assisted in the creation of the Pediatric Advocacy Initiative, a legal clinic that offered free services to area patients. Teneille practiced law for two years at the law firm of Latham & Watkins, LLP in Washington, DC, where she practiced in the Health Care and Life Sciences group, representing early-stage pharmaceutical and device companies.

At CIRGE, Teneille will research the role of behavioral genetics in 4th, 8th, and 14th Amendment jurisprudence, against the back-drop of distributive justice and civil rights objectives. She is particularly interested in the disparity in legal treatment of mental illness, depending perhaps on the underlying genetic basis of the disorder. While she will be researching the genetics of alcohol use and how this information is used in the courts, she is also interested in the admissibility of genetics data generally.

Kelly Ormond, MS, CGC, arrived at Stanford in September as the Director of the new Master's of Science in Human Genetics and Genetic Counseling degree program. Her primary appointment is in the Department of Genetics but she has also joined the SCBE faculty. She came here from Northwestern University, where she was Director of the Graduate Program in Genetic

Counseling. Her research interests include the impacts of new technologies and effects of informed consent in genetic counseling. Since coming to Stanford, she has already gotten involved in efforts in the state of California that would require licensure for genetic counseling, and become a member of the Stanford University Hospital Ethics Committee. Kelly hopes to collaborate with other SCBE members on developing new courses on genetics and ethics for the Master's program, and on research.

Visiting scholars join SCBE in January 2008:

Father John J. Paris joins us again for 6 months after a visit in 2006, when he endeared himself to SCBE, SUH, and LPCH staff. Father Paris is in the Department of Theology at Boston College and has served as consultant to the President's Commission for the Study of Ethics in Medicine, the United States Senate Committee on Aging, and the Congressional Office of Technology Assessment. He has published over 100 articles on the area of law, medicine, and ethics and has served as a consultant and expert witness in many of the landmark biomedical cases including Quinlan, Brophy, Jobes, Baby K and Gilgunn.

Joanna Fanos, PhD, has returned to the Bay Area but is still faculty in the Department of Pediatrics at Dartmouth Medical School and Director of the Sibling Center at the California Pacific Medical Center. Her background is in psychiatry, and her work as a research psychologist focuses on the impact of pediatric chronic illness on the family, especially the well sibling. She has documented the long-term psychosocial effects of growing up with and possibly surviving an affected sibling in such disorders as cystic fibrosis (CF), ataxia-telangiectasia, X-linked severe combined immune deficiency, commonly known as the "bubble boy" disease, pediatric HIV, and Familial Amyotrophic Lateral Sclerosis (ALS). She is teaching several psychiatry courses at San Jose State and at Cal State Hayward.

While at SCBE this year, Joanna hopes to conduct research in collaboration with SCBE faculty, perhaps on the psychosocial and ethical issues in the use of stem cells, umbilical cord blood or transplantation, in pediatric illness, especially on siblings.

People News (continued)

Clarence Braddock has three new roles in the medical school, as if he didn't have enough already! In 2007 he assumed the roles of Associate Dean for Medical Education, Associate Chair for Organizational Improvement and Medical Director for Quality (Medicine), Stanford Hospital & Clinics.

Molly Chalfin joined SCBE as a research assistant in 2007 to work with Judy Illes, then Director of the Program in Neuroethics, and post-doctoral fellow Emily Murphy. She is a senior in the Human Biology Department concentrating in Neuroscience and Behavior. With a research background in fMRI and neuroeconomics, she worked primarily on a biblioinformatics project that sought to determine the degree to which ethical discussion has penetrated neuroscience literature since the inception of the field of neuroethics in 2002. She stayed on as SCBE webmaster. When not making web edits for SCBE, Molly works as research assistant at Stanford Law School's Center for Law and Biosciences. In addition to a BA in Human Biology, she projects to graduate this year with a minor degree in Studio Art.

Maya Wolpert joined SCBE to assist the administrative staff. She is a Stanford sophomore, majoring in Human Biology, with a concentration in Biomedical Ethics and a minor in Spanish. Maya is from Cleveland, Ohio, and loves being in California. She spent the summer in South Africa doing AIDS relief and research in a rural village, and hopes to intern this summer in bioethics on the East

Coast. Maya is enjoying her administrative and research-oriented tasks here at SCBE.

Holly Tabor was awarded a K99/R00 from the National Human Genome Research Institute, entitled: "Ethical and Social Issues in the Study of Genetics of Complex Traits." In Summer, 2008, she will be taking the position of Assistant Professor in the Department of Pediatrics, Division of Bioethics at the University of Washington School of Medicine.

Emily Murphy joined the Program in Neuroethics at SCBE in 2007 and continues her postdoc affiliation. She is currently a Fellow in the Stanford Law School Center for Law and Biosciences, Research Fellow on the MacArthur Law and Neuroscience Project based at the University of California, Santa Barbara, and an affiliate of the National Core for Neuroethics at UBC. Emily graduated from Harvard (ABmcl, 2003, Psychology/MBB) and completed her doctoral work in the Department of Experimental Psychology at the University of Cambridge while on a Gates Cambridge Scholarship (2007). Her research in behavioral neuroscience focused on the neural and neurochemical basis of impulsivity and behavioral flexibility. Her current research is on issues surrounding the application of neuroscience and neuroimaging technology in criminal and civil law, the effect of neuroimaging evidence on legal decision-making and concepts of agency, and designing hypothesis-driven neuroimaging work that can directly inform legal or policy-based challenges.

And moving on in 2007...

We were sad to see the following people leave SCBE last year, but send all our best wishes in their new endeavors!

Anne Footer, former Assistant Director of SCBE, is now Management Services Officer at the Marine Physical Laboratory and Joint Institute for Marine Observations, Scripps Institution of Oceanography, at the University of California, San Diego.

Judy Illes, former Director of the Program in Neuroethics at SCBE, is now the Canada Research Chair in Neuroethics and Professor of Neurology, National Core for Neuroethics, University of British Columbia (<http://neuroethics.ubc.ca>)

Vivian Chin is attending Robert Wood Johnson Medical School in New Jersey. Vivian was Program Coordinator for the Program in Neuroethics, under Dr. Judy Illes.

Sarah Chaudhary, formerly a Research Assistant for Dr. LaVera Crawley, is now a medical student at Case Western Reserve in Cleveland.

Hilary Spencer was SCBE's webmaster. She is now working in New York City, for the Nature Publishing Group.



Faculty Profile: Audrey Shafer

Paula Bailey interviews Audrey Shafer, M.D., Professor in the Department of Anesthesia at the Stanford University School of Medicine and Staff Anesthesiologist at the Veterans Affairs Palo Alto Health Care System. Shafer is Director of the Program in Arts, Humanities and Medicine and her interests include writing, poetry, medical humanities, the language of medicine, communication in the peri- and intraoperative periods, and ethics in the operating room.

Audrey, tell us about recent accomplishments of the Arts, Humanities and Medicine Program.

Our program, which grew out of the Arts and Humanities Medical Scholars Program (begun in the year 2000), has now become integrated into the medical school curriculum via the scholarly concentrations program. We have students who have significant involvement with the arts and humanities through coursework and projects, as well as events, because of support from the medical school encouraging them to explore their areas of interest. Our most recent program accomplishments include student publications. We have a former student whose book of poems is coming out this year. It's called *33 Hats for Julia* by Sarah Bien, who is now a Stanford Medical School graduate. This becomes the fourth book which received grant support from our program to hit the stands. Student projects have included photo documentaries, individual pieces of creative writing, and the publishing of scholarly articles. It's been very exciting!

Beyond that we've tried to nourish and create a community of people at the medical school who have an interest in the arts and humanities. We received a generous grant from the Shenson Funds to start writers workshops and fora to explore the creative side of anyone with an affiliation to the medical school or hospitals, including alumni, staff, volunteers, faculty, as well as students. It has been very well-received. We're lucky that we have an accomplished workshop leader, Sharon Bray, who is known to the Cancer Center for leading their writing program. She brings her expertise to our program; the workshops are ongoing so that people can join at various points. At our annual Writers Forum we celebrate some of the writing produced in these workshops or by other people affiliated with the medical school or in the Bay Area.

The next Writers Forum is going to be April 3, 5:00 pm, at the Clark Center Auditorium, and it is free and open

to the public. We will have readings by writers including Sarah Bien, refreshments to follow the event, and we are hoping to inaugurate a new part of the program with a mystery thriller contest. It will be a

The 11-Sentence Medical Mystery begins...

MEDICAL THRILLER: author and former Stanford medical student JOSHUA SPINOGLE has started an 11 sentence medical mystery story and it is up to the rest of the Stanford medical community to finish it! We need YOUR input for the next ten sentences.

Read the developing story at <http://bioethics.stanford.edu/jarts/> and submit your next sentence by Monday of each week. Winners will be announced weekly and rewarded with \$20 gift certificates to the bookstore. The final sentence will be revealed at the Stanford Writers Forum on 3 April 2008. Contact jspinog@stanford.edu with questions.

The first prize is \$200, the second \$100, the third \$50, the fourth \$25, the fifth \$10, the sixth \$5, the seventh \$2, the eighth \$1, the ninth \$0.50, and the tenth \$0.25. The prize money will be used to fund the Stanford Medical School's efforts to fund a student research project. The organizing committee retains the right to cancel. Winning prizes will be awarded on 3 April 2008. The contest is open to the Stanford medical community. It is a contest to see who can write the best sentence for the story.

weekly contest, the organization of which is still in process. We will be soliciting a sentence weekly to continue a story that has a medical thriller basis with weekly prizes to the winners, culminating in a reading of the entire eleven sentence medical mystery at the Writers Forum in April. We are hoping to make it a fun event and get people intrigued and excited about writing!

Looking to the future, what major initiatives do you see on the horizon?

We are going to continue the very successful elements of the program. People now ask us every year when the next Medicine and the Muse event will occur. This is an annual symposium based at the medical school each spring which highlights the intersection of the arts, humanities and medicine. We have an invited speaker and then presentations of art and music by Stanford medical students, and it truly is a celebration of creativity, insight and community. Our speaker this spring (May 6) will be Anne Fadiman, author of a number of books including *The Spirit Catches You and You Fall Down*, which is required reading for our medical students. Another initiative that we began last

Faculty Profile (continued)

year is to establish better connections to other medical humanities programs. We now have a connection to



Audrey Shafer, MD (Mike Harrigan Photography)

Dalhousie University in Halifax, Nova Scotia, and took a small delegation of Stanford students plus Stanford house staff there to a conference. We are also in the process of working with UCSF and the other UC medical schools, trying to improve the climate for medical humanities in California.

One of the elements of our program is Music and Medicine and we've had a series of exciting, well-attended events, bringing in musicians who are also able to talk about music in relation to medicine. Our last event, in the fall of 2007, featured Rob Kapilow and the St. Lawrence String Quartet. Rob Kapilow talked about the connections between music and narrative, the flow of music, and the particulars of a piece of music by Beethoven, in terms of the context of why it was written as a song of thanks after he recovered from an illness from which he thought he would die. We hope to continue and perhaps expand on the music and medicine program. One of the wonderful things about having a program at a medical school physically located on the campus of a major university is the possibility of connections and bridges being built

between the medical school and the university. The arts and humanities is an area where that is quite possible.

We are also trying to see ourselves as a resource for the community in terms of arts, humanities, and medicine. On our website we are trying to include informational links to other programs and sites of interest, such as journals that might accept writing by people who have some relationship to medicine. We are now hosting two publications on our website. One is *H&P*, a Stanford medical student journal which includes clinical medicine and research, but also has a great deal of ethics and humanities in it. The other publication is *Healing HeARTs*, an outgrowth of a volunteer organization at Packard Children's Hospital, where students are involved with art therapy for certain populations of pediatric patients.

How do you spend your free time? I know you've recently come out with a new children's book.

I did have a book published, *The Mailbox*, which is a children's novel. It's about post-traumatic stress disorder in Viet Nam veterans, and hence, hopefully of interest to adult readers, as well. I spend some of my time writing, working in prose or poetry genres, and I do read quite a bit. I like to read, and I guess I find it a part of me. As everyone does, I greatly enjoy spending time with my family, and find that time to be most rewarding.



Are there other topics you would like to talk about?

I have felt very welcomed by the Stanford Center for Biomedical Ethics, in terms of housing the Arts, Humanities and Medicine Program here at the Center. The Center welcomes an inclusive, broad definition of what it means to look at medicine in the context of cultural and life issues. For instance, another program at the Center, directed by Dr. Maren Grainger-Monsen, filmmaker-in-residence, focuses on film and ethics. I have felt honored for our program to have its home here.

How did that come about?

The medical school has a strong, long-standing program in research, including encouraging medical students to do research. A number of years ago it was decided that what was considered research could be expanded beyond the bench, beyond clinical research, even to include such areas as public service and bioengineering. At that point, LaVera Crawley, who is here at the Center, and Ramona Doyle in the Pulmonary Division of Internal Medicine, and I wrote a proposal recommending that the program expansion include arts and humanities. The medical school accepted it, so we then had access to giving grants to medical students for

Faculty Profile (continued)

projects related to the arts and humanities and its intersections with medicine. We formed a committee, we networked, and it became one of those experiences of “build a field, and they will come.” We had applications from the very first round. As the medical school went through a curriculum reform effort and decided to include the medical scholars research grant program more formally in the basic curriculum of the medical school and require students to choose an area in which to concentrate, I decided to seek alignment with another group in order to present a strong proposal. We were able to forge a union which was beneficial for all involved. It was through the Scholarly Concentration in Biomedical Ethics and Medical Humanities that we decided to have our Arts, Humanities and Medicine Program here.

One of my goals for the program is sustainability. Currently we don't have faculty in the arts, humanities and medicine program who are here for the sole purpose of teaching medical humanities to medical students, whereas that is the case at some other medical schools. What I hope and envision is that at some point, we would be able to hire a faculty member dedicated to medical humanities and continue to invigorate the community in terms of the importance of the arts and humanities in medicine. I am an anesthesiologist. Essentially the Anesthesia Department subsidizes the Arts, Humanities and Medicine Program because my faculty position and clinical work is in the Department of Anesthesia. What I hope is to have a funded position, whether in the Anesthesia Department or another department, which defines its position as being a medical humanities faculty position.

Returning to student projects, are there other examples that stand out in your mind?

We encourage students to use what they've learned in their coursework, through David Magnus' ethics course and Larry Zaroff's *The Human Condition*, not only in their projects for the concentration, whether in arts and humanities or ethics or a combination, but in their whole medical career, how they view what's being practiced around them, and how they develop their own medical practice. I think projects involving international health are good examples of this goal. For instance, we have a student graduating this year who traveled to Papua, New Guinea, and made a photo documentary of the local health practices in very rural, jungle-type environments, which was published in the medical student journal. Another student went to Ecuador and made a photo documentary of a rural surgery program, where everything was loaded onto a truck—the operating room, recovery and so forth. I'm

hoping these experiences and the esthetics of understanding what photography is about in these settings, as well as the ethics of photographing in those arenas, get inculcated into students, as they go off into their own careers.

In your past when you were deciding how your career was going to go, did you feel conflict between these two sides of yourself, between the medical side and the humanities side, or has there always been a place to explore both?

In terms of my own personal journey, I grew up in an arts family. My mother was a costume designer, and my father was a playwright, and anyone who truly understands what it means to grow up in an arts family understands there is very little money involved—a lot of scraping by! My sister and I were taught that education was the means to have the ability to choose and we both became physicians.

As I was growing up, I never honestly envisioned the arts side of myself, even though that is what surrounded me. But I knew I was not interested in standing in the unemployment line and that kind of thing, so I became a physician. It was only when I was in medical school (I went to Stanford) that I even considered taking a writing class! It was quite a bit of time later that I decided to pursue the arts and humanities as the academic part of my work. I went into anesthesiology, absolutely love that field and find it very rewarding. I would not want to give up the practice of anesthesiology, and feel that I'm just very fortunate to have an opportunity to actually feed both sides of myself. I also feel that there is hopefully some intersection within myself of the two areas in how I treat patients when I meet them, and some sensitivity to listening to what they have to say and need to say. I hope that I don't separate out myself too much, but I did come at these two areas at different times in my life and for different reasons.

How long has this combination of the arts and humanities and medicine been around?

It is a relatively new area and at most medical schools there is a combination of ethics with humanities. In fact, the professional society is called American Society for Bioethics and Humanities. Most medical schools which have a humanities program house that program within a center or department that encompasses both ethics and humanities. There are some that have a balance one way or the other, and there are also a growing number of undergraduate programs which feature medical humanities. There are only a few post-graduate programs offering a masters or even a PhD specifically in medical humanities, but it's not uncommon for some medical schools to have required courses that include medical humanities components. We're hopeful that Stanford will continue to support medical humanities and even expand the role of the arts and humanities in the curriculum.

Center Activities

The Stem Cell Blog:

The Program on Stem Cells in Society's **The Stem Cell Blog** celebrates its seven month anniversary with original essays, opinion, news and debate on the social, legal, ethical and economic dimensions of stem cell research. Along with the editor, **Chris Scott**, a dozen contributors blog on issues ranging from the scientific impact of new induced pluripotent stem cell lines to the battles for state research funding to the ethics of cord blood donation. The blog's posts have been featured in Google News, UPI, Bloomberg, and Bioethics.net.

The Stem Cell blog facts:

- 80 original content articles, blogs and essays
- StateWatch series tracks state stem cell legislation
- Hot Topics in Science features monthly explanations of technical issues
- BlueBlast awards for posts that generate the most traffic and comment
- Read Pages features recent book reviews and links for stem cell scholarship
- 60,000 words, original artwork and scientific illustrations, 260 pages



Journal Club:

Holly Tabor initiated a new **Journal Club**, co-sponsored by the Center for the Integration of Research on Genetics and Ethics (CIRGE) and the Department of Genetics, "Living and Researching in the Post-Human Genome Project Era" - A journal club for discussion of issues in genetics, genomics, ethics and society. It has been held the first Thursday of each month since October, 2007. The first session, led by Holly and Joanna Mountain of 23andMe, was on personal genomes. November's discussion was about direct-to-consumer genetic testing, followed by December's session on race, ancestry and population genetics. 2008 journal clubs will address, among other topics, genome-wide association studies, the Genetic Information and Non-discrimination Act, advocacy and genetic research.

Tai Chi in the Med School:

Medical students (and Biomedical Ethics and Medical Humanities concentrators) **Steven Lin** and **James Andrews**, working with SCBE's **Paula Bailey**, initiated an effort culminating in the School of Medicine offering a Tai Chi course to students. The course, Medical Tai Chi, devotes one third of class time to review and discussion of research into the health benefits of Tai Chi, and the remaining two-thirds is devoted to the practice of Chen Style Tai Chi, with instruction from 20th Generation Tai Chi Master Shu Dong Li. The Sponsoring Faculty Member for the new course (INDE 213) is Dr. Sam LeBaron, the Student Course Director is Steven Lin, and it is supported by the Department of Family and Community Medicine. Requirements for the course include community service experience, and students will work with local seniors in assisted living facilities to teach them Tai Chi for health improvement and fall prevention.

The course is augmented by the introduction of a new student club, the Stanford Tai Chi Health Club, whose objective is to promote student health and well-being and to decrease stress, depression, and anxiety through the practice of Tai Chi as a philosophy, as well as an integrative medicine modality. It will promote, both through active participation and scientific research, greater awareness of the mental and physical health benefits of Tai Chi.

Bioethics Summer Camp:

SCBE is sponsoring the **2008 Bioethics Summer Camp** in Sonoma, CA, June 18-22. Panels will address topics including: "Role of Bioethics in the 2008 National Election" and "Organic and Sustainable Farming and the Slow Food Movement" – and of course, wine tasting!



Upcoming Faculty Talks (January – June, 2008)

Clarence Braddock

March 8, Ethical Implications of Health Care Disparities, in the 17th Annual Ethics Symposium Sponsored by the TPMG Department of Medical Ethics, Kaiser Permanente Northern California

Mildred Cho

February 29, The Science and Emerging Social Implications of Neurogenomics: The Convergence of Brain, Genetics & Behavior. Emerging Problems in Neurogenomics: Ethical & Policy Issues at the Intersection of Genomics

Hank Greely

January 3, Psychiatry Grand Rounds (Adult), Neuroethics, Stanford

January 7, Leon Jaworski Memorial Lecture, Houston Holocaust Museum, Houston

January 10-12, Law and Genetics Seminar, Federal Judicial Center, Stanford (speaker and organizer)

January 15, Serra House, Law and Bioscience, Stanford

January 24, MacArthur Project on Law and Neuroscience, Meeting of the Diminished Brains Network, Stanford (speaker and organizer)

February 2, MacArthur Project on Law and Neuroscience, Meeting of the Decision-Making Network, fMRI-Based Lie Detection, Vanderbilt (speaker)

February 23, Parent's Weekend, Human Biological Enhancement, Stanford

February 29, Conference on Neurogenetics, University of Minnesota, Neuroethics, Minneapolis

March 1, Conference on Law and Neuroscience, Neuroscience and Criminal Sentencing and Treatment, Amherst

March 8, Stanford Development Event, Neuroethics, San Diego

March 11, Brain Awareness Week, University of British Columbia, Law and Neuroscience, Vancouver

April 3, Group on Institutional Planning and Group on Business Affairs of the Association of American Medical Colleges. Ethical Issues in Translational Research, San Francisco

April 4, Center for Law and the Biosciences Conference, Neuroimaging, Pain, and the Law, Stanford (speaker and organizer)

April 5, Center for Law and the Biosciences and MacArthur Project on Law and Neuroscience, Junior Law and Neuroscience Scholars Workshop (commenter and organizer)

April 8, Human Genetics Journal Club, Stanford

April 29, Series on Enhancement, Pitzer College, Claremont

May 1-3, CWRU ELSI Conference, Consumer Genomics, Cleveland (abstract submitted)

May 3, Northern District of California Annual Judicial Conference, Probably on both neuroscience and genetics and law, Napa (tentative - depending on scheduling of CWRU talk).

May 8, American Psychiatric Association, Law and Neuroscience, Washington, D.C.

May 13, UT Southwestern, Ethical and Legal Issues in Genomic Biobanks, Dallas

May 17, UCSF Breast Cancer Genetic Testing Meeting, San Francisco

May 22, Alzheimer Disease Research Group, UCSD, Legal and Ethical Issues in Alzheimer Disease, San Diego

May 23, Nature Workshop, Cognitive Enhancement, Rockefeller University, New York

May 28-June 1, MacArthur Project on Law and Neuroscience, Annual Meeting (speaker and organizer)

June 4-5 MacArthur Project on Law and Neuroscience, Judicial Seminar on Law and Neuroscience (partial organizer, likely to be a speaker)

June 5, Midwestern Reproductive Symposium, ART in 2038, Chicago

Sandra Lee

January 11 and February 8, *Race and Human Genetic Variation: Implications for Clinical Medicine*. Medical Genetics Seminar, Internal Medicine Residency Program. University of California, San Francisco, California.

May 1-3, *Approaching Race and Conceptualizing Population Differences in Pharmacogenomic Research*. Organized Session: ELSI Approaches to Race and Genetic Research: Talking with researchers, engaging policy-makers and examining the public impact. Translating ELSI: Global Perspectives on the Ethical, Legal and Social Implications of Human Genome Research Conference. Cleveland Ohio.

May 15, *Characterizing Difference in the Genomic Age*. Women in Genome Sciences, Department of Genome Sciences. University of Washington. Seattle, Washington.

Maren Monsen

April 2008, Medical College of Wisconsin Muses annual keynote address

Chris Scott

Berkeley Center for Law and Technology: seminars on stem cell law and policy

Zurich, Switzerland: plenary address on international issues of stem cell intellectual property and commerce.

BioCon 2008: Panel discussion on stem cell business

Northern Arizona University, plenary address at Symposium on Culture, Thought and Society.

Sally Tobin

January 13, Organized Symposium on The New Genetics project, Annual CSUPERB, Oakland CA

February 8, Cardiovascular Disease Research Ethics course, Dallas TX.

Recent and Forthcoming Publications (2007)

Clarence Braddock

- Chamberlain LJ, Wang E, Ho EH, Banchoff AW, Braddock CH, Gesundheit N. Intergrating collaborative population health projects into a medical student curriculum. *Acad Med*. In press, 2007.
- Hudak PL, Frankel RM, Braddock CH, Nisenbaum R, Luca P, McKeever C, Levinson W. Do patients' communication behaviours provide insight into their preferences for participation in decision making? *Medical Decision Making*. In press, 2007.
- Micek MA, Bradley KA, Braddock CH, Maynard C, McDonnell M, Fihn SD. Complementary and alternative medicine use among Veterans Affairs outpatients. *Jour Altern Complementary Medicine*, 2007;13(2): 190-193.
- White DB, Braddock CH, Berkneyi S, Curtis JR. Toward shared decision-making at the end-of-life in intensive care units: opportunities for improvement. *Arch Int Med*, 2007;167:461-467.

Mildred Cho

- Cho, MK, Sabeti, PC & Tishkoff, SA (2007) Ethical and social implications of research on natural selection in humans. *Trends in Genetics* (in press)
- Cho, MK (2007) How to understand incidental findings in the context of genetics & genomics research. *Journal of Law, Medicine and Ethics* (in press)
- Cho, MK, Tobin, SL, Greely, HT, McCormick, J, Boyce, A, and Magnus, D. Strangers at the Benchside: Research Ethics Consultation. *American Journal of Bioethics* (in press)
- McGuire, AL, Caulfield, T and Cho, MK (in press) Research ethics and the challenge of whole genome sequencing. *Nature Reviews Genetics*. published online 18 December doi:10.1038/nrg2302
- Cho, MK and Magnus, DM (2007) Therapeutic misconception and stem cell research. *Nature Reports Stem Cells* Published online: 27 September doi:10.1038/stemcells.2007.88. [commentary]
- Tabor, HK & Cho, MK (2007) Ethical Implications of Array CGH in complex phenotypes: points to consider in research. *Genetics in Medicine* 9:626-631.
- McGuire, AL, Cho, MK, McGuire, SE, and Caulfield, T (2007) The future of personal genomics. *Science* 317: 1687.
- Greely, HT, Cho, MK, Hogle, LF and Satz, DM (2007) Thinking about the human neuron mouse. *American Journal of Bioethics* 7:27-40.
- Sankar, P, Cho, MK and Mountain, J. (2007) Race and ethnicity in genetic research. *American Journal of Medical Genetics* 143A:961-970.

Hank Greely

- Mildred K. Cho, Sara L. Tobin, Henry T. Greely, Jennifer McCormick, Angie Boyce and David Magnus, *Strangers at the Benchside: Research Ethics Consultation*, AMERICAN JOURNAL OF BIOETHICS (forthcoming 2008)
- Mildred K. Cho, Sara L. Tobin, Henry T. Greely, Jennifer McCormick, Angie Boyce and David Magnus, *Research Ethics Consultation: The Stanford Experience* (under submission)
- Henry T. Greely, *Genetic Genealogy: Genetics Meets the Marketplace*, in REVISITING RACE IN A GENOMIC AGE 271-299 (eds. Barbara A. Koenig, Sandra Soo-Jin Lee, and Sarah Richardson; Rutgers University Press, forthcoming 2008)
- Henry T. Greely, *Within You, Without You*, in IMAGINING SCIENCE (ed. Curtis Gillespie, Univ. of Alberta Press forthcoming 2008)
- Henry T. Greely, *Neuroscience and the Law*, PROCEEDINGS, SECOND CIRCUIT JUDICIAL CONFERENCE, June 2007 (to be published in the Federal Rules Decisions sometime in 2008)
- Henry T. Greely, *On Neuroethics*, (editorial), SCIENCE 318:533 (Oct. 26, 2007)
- Henry T. Greely, *Science and the Supreme Court*, review of Jeffrey Toobin, THE NINE: INSIDE THE SECRET WORLD OF THE SUPREME COURT, NATURE 449:285-86 (Sept. 20, 2007)
- National Cancer Policy Forum, Institute of Medicine, CANCER-RELATED GENETIC TESTING AND COUNSELING: WORKSHOP PROCEEDINGS, at 103-116 (National Academies Press, Washington, D.C. 2007)
- Hank Greely, *Covering the Risks* (letter), THE ECONOMIST 18 (Sept. 15, 2007)
- Henry Greely, *Ethical Issues in Human Population Genetics*, in HUMAN POPULATION GENETICS: EVOLUTION AND VARIATION (eds. Luigi Luca Cavalli-Sforza and Marcus Feldman, 2007 Henry Stewart Talks)
- Henry T. Greely and Judy Illes, *Neuroscience-Based Lie Detection: The Urgent Need for Regulation*, AM. J. LAW & MED. 33:377-431 (2007)
- Henry T. Greely, *The Uneasy Ethical and Legal Underpinnings of Large-Scale Genomic Biobanks*, ANNUAL REVIEW OF GENOMICS AND HUMAN GENETICS, 8:343-364 (2007)
- Henry T. Greely, Mildred K. Cho, Linda F. Hogle, Debra M. Satz, *Thinking About the Human Neuron Mouse*, AMERICAN JOURNAL OF BIOETHICS: NEUROETHICS 7:(5) 25-40 (May/June 2007)
- Henry T. Greely, Mildred K. Cho, Linda F. Hogle, Debra M. Satz, *Response to Peer Commentaries*, AMERICAN JOURNAL OF BIOETHICS: NEUROSCIENCE 7:(5) W4-W6 (May/June 2007)
- Turhan Canli, Susan Brandon, William Casebeer, Philip J. Crowley, Don DuRousseau, Henry T. Greely, Alvaro Pascual-Leone, *Neuroethics and National Security*, AMERICAN JOURNAL OF BIOETHICS: NEUROSCIENCE 7:(5) 3-13 (May/June 2007)
- Turhan Canli, Susan Brandon, William Casebeer, Philip J. Crowley, Don DuRousseau, Henry T. Greely, Alvaro Pascual-Leone, *Response to Peer Commentaries*, AMERICAN JOURNAL OF BIOETHICS: NEUROETHICS 7:(5) W1-W3 (May/June 2007)
- Henry T. Greely, *Law and Neuroscience*, ENCYCLOPEDIA OF LAW AND SOCIETY (July 2007, ed. David S. Clark, Sage Publications: Thousand Oaks)
- Michael T. Longaker, Laurence C. Baker, Henry T. Greely, *Proposition 71 and the Creation of a California Institute for Regenerative Medicine: Assessing the Return on this Investment*, NAT. REV. BIOTECH. 25:513-21 (May 2007)
- Henry T. Greely, *Knowing Sin: Making Sure Good Science Doesn't Go Bad*, CEREBRUM 2007: EMERGING IDEAS IN BRAIN SCIENCE (2007, Ed., Cynthia A. Read, Dana Press:New York) (reprinting of Henry T. Greely, *Knowing Sin: Making Sure Good Science Doesn't Go Bad*, CEREBRUM (June 2006)).

Sandra Lee

- Lee, Sandra Soo-Jin. "Racial Realism: Reframing Disparity into Difference." In *Revisiting Race in a Genomic Age*. Editors: Barbara Koenig, Sandra Soo-Jin Lee, and Sarah Richardson. Studies in Medical Anthropology Series. New Brunswick: Rutgers University Press (in press)

Recent and Forthcoming Publications (continued)

Sandra Lee (continued)

Koenig, Barbara, Sandra Soo-Jin Lee and Sarah Richardson. "Introduction." In *Revisiting Race in a Genomic Age*. Editors: Barbara Koenig, Sandra Soo-Jin Lee, and Sarah Richardson. Studies in Medical Anthropology Series. New Brunswick: Rutgers University Press (in press).
Lee, Sandra Soo-Jin. 2007 "Response to: The implications of population admixture in race-based drug prescription." *Clinical Therapeutics and Pharmacology*.

David Magnus

Fossett, J., Ouellette, A., Philpott, S., Magnus, D., McGee, G., "The Bioethics of Federalism: States and Moral Pluralism." Nov/Dec 2007 Hastings Cent Rep.
Cho, M., Magnus, D., Commentary: "Therapeutic Misconception and Stem Cell Research." *Nature Reports Stem Cells*, Published online: 27 September 2007
Magnus D, "Playing it Safe." *Am J Bioeth* 2007 March; 7: 3

Jennifer McCormick

Owen-Smith, J and McCormick, J. An international gap in human ES cell research *Nat. Biotechnol.* (April 2006) 24:391-2.
Angioy, AM, Muroi, P, Barbarossa, IT, McCormick, J, Nichols, R. Evidence dromyosuppressin acts at posterior and anterior pacemakers to decrease the fast and the slow cardiac activity in the blowfly *Protaphormia terraenovae*. *Peptides* (2007), 28:585-93.
Cho, MK, Tobin, SL, Greely, HT, McCormick, J, Boyce, A, and Magnus, D. Strangers at the Benchside: Research Ethics Consultation. *American Journal of Bioethics* (in press)
Cho, MK, Tobin, SL, Greely, HT, McCormick, JB, Boyce, A, and Magnus, D. Research Ethics Consultation: The Stanford Experience. *IRB: Ethics and Human Research* (provisionally accepted)
Neal, HA, Smith, TL, and McCormick, JB. *Beyond Sputnik: science policy in the 21st century* (Ann Arbor, MI: University of Michigan Press) forthcoming in 2008.

Maren Monsen

- National Television Broadcast: Hold Your Breath had a National Public Television Broadcast in April 2007 with outreach and screening events in more than 10 states throughout the country. <http://medethicsfilms.stanford.edu/holdyourbreath/>
- Hold Your Breath Film Festivals:
 - Plymouth Independent Film Festival
 - Houston International Film Festival
 - Chicago International Documentary Film Festival
 - Yerba Buena Center for the Arts, True Stories, Doc Film series
- Hold Your Breath Awards:
 - Houston International Film Festival, Silver Remi Award for Religion and Ethics, April 2007.
 - 2007 Wilbur Award Winner, Religion Communicators Council

Nicole Newnham

Program in Bioethics and Film (PBF) Producer Nicole Newnham's film, THE RAPE OF EUROPA, short listed for an Academy Award.

Kelly Ormond

El Dahdah L, Ormond KE, Nassar A, Al-Khalil T, Zahed L. (2007) "Obstetrician experience with prenatal diagnosis of chromosomal abnormalities in Lebanon." *Prenatal Diagnosis* 27(6):525-34
Ormond KE, Iris M, Banuvar, S, Minogue J, Annas GJ, Elias S. "What do patients want: Informed consent models for genetic carrier testing". *J Genet Counseling* 2007 Aug;16(4):539-50. (Note: Article selected for CEU offering in this journal volume)
Munger K, Gill CJ, Ormond KE, Kirschner K. "The Next Exclusion Debate: Assessing Technology, Ethics, and Intellectual Disability After the Human Genome Project." *Ment Retard Dev Disabil Res Rev.* 2007;13(2):121-8.
Pangoni S, Seelaus CA, Ormond KE, Opal P. "Association of spinocerebellar ataxia type 3 and spinocerebellar ataxia type 8 microsatellite expansions: Genetic counseling implications." *Mov Disord.* 2007 Nov 6; [epub ahead of print]

Mike Seely

PBF Associate Producer Mike Seely's film, HEALTH BY RIVER AND ROAD, just aired on Frontline World. You can watch a short version of the story on the Frontline World website here: http://www.pbs.org/frontlineworld/rough/2007/06/ecuador_health.html

Chris Scott

"Fractured Landscapes: the international consequences of stem cell research." In *American Thought and Culture in the 21st Century*, University of Edinburgh Press (in press).
"A Global Guide to Intellectual Property." Burroughs-Wellcome/Howard Hughes Medical Institute series for young investigators (in press).
Stem Cells: new frontiers of ethics, law and policy. *Journal of Neurosurgery (Focus)* March/April 2008 (In press).
Challenges to Embryonic Stem Cell Patents (with Aurora Plomer and Ken Taymor) *Cell (Stem Cell)* doi:10.1016/j.stem.2007.12.006
Scott, Christopher Thomas. "The Great Debate." *Nature* 2007; 450 (7170):611.
Scott, Christopher Thomas. "Stem Cells on Shelves." *The Scientist*, 21(4):56, 2007.
"Mice with a Human Touch." *Nature Biotechnology* 25(10): 1075-1078, 2007.
"Splitting the Difference." *Science and Spirit*, 18(2): 38-41, 200, 2007.
"Private Stem Cell Bank is a Poor Investment." (with Eric Chiao) *San Francisco Chronicle*, op/ed August 31, 2007.
"State Stem Cell Program Facing Tough Times Ahead." *Sacramento Bee*, op/ed August 31, 2007.
"Overhauling clinical trials." (with Monya Baker) *Nature Biotechnology* 25(3):287-292, 2007.

Recent and Forthcoming Publications (continued)

Audrey Shafer

Haddad A, Pucciani D, Shapiro J, Shafer A. Always a surprise, even a wonder: Poetry and commentary. *Journal of Medical Humanities* 28(2):105-114, 2007

Shafer A, Maxwell B, Strauss R, Kopp VJ. I must tell you in a poem: Poetry and commentary. *Journal of Medical Humanities* 28(3):173-80, 2007

Shafer A. Bridging science and poetry: a commentary on Nan Cohen's "Rope Bridge" *Academic Medicine* (Medicine and the Arts) 82:804-5, 2007

Shafer A. *The Mailbox* Random House 2006, audiobook 2007, paperback 2008

Holly Tabor

Hlatky MA, Quertermous T, Boothroyd DB, Priest JR, Glassford AJ, Myers RM, Fortmann SP, Iribarren C, Tabor HK, Assimes TL, Tibshirani RJ, Go AS. Polymorphisms in hypoxia inducible factor 1 and the initial clinical presentation of coronary disease. *Am Heart J*. 2007 Dec;154(6):1035-42. Epub 2007 Sep 18.

[Assimes TL, Knowles JW, Priest JR, Basu A, Borchert A, Volcik KA, Grove ML, Tabor HK, Southwick A, Tabibiazar R, Sidney S, Boerwinkle E, Go AS, Iribarren C, Hlatky MA, Fortmann SP, Myers RM, Kuhn H, Risch N, Quertermous T.](#) A near null variant of 12/15-LOX encoded by a novel SNP in ALOX15 and the risk of coronary artery disease. *Atherosclerosis*. 2007 Oct 22; [Epub ahead of print]

[Tabor HK, Cho MK.](#) Ethical implications of array comparative genomic hybridization in complex phenotypes: points to consider in research. *Genet Med*. 2007 Sep;9(9):626-31. Review.

Sally Tobin

Cho, MK, Tobin, SL, Greely, HT, McCormick, J, Boyce, A, and Magnus, D. Strangers at the Benchside: Research Ethics Consultation. *American Journal of Bioethics* (in press)

Larry Zaroff

A Woman's Despair, a Young Doctor's Bewilderment New York Times, February 13, 2007

She Hums. Hospital Drive: A Journal of Reflective Practice in Word & Image Summer, 2007

A Meal, a Smile, a Word: Thanks in a Thousand Ways New York Times, May 1, 2007

Code Blue: A Medical Morality Play In 3 Acts . Science Section, Nyt Aug 28, 2007

Cases; Ministering to Chaos Abroad, Echoing at Home NYT November 20, 2007

Cambridge Press Encyclopedia Of Biomedical Ethics, Chapter On Surgical Ethics. (With James Andrews) In Press

Student Publications: Biomedical Ethics and Medical Humanities Scholarly Concentration

James Andrews chapter on Surgical Ethics, co-written with Larry Zaroff, will be published in January 2008 in the Cambridge Textbook of Bioethics, Cambridge University Press.

Peter van Roessel: Music, Medicine, and the Art of Listening

Peter van Roessel, Audrey Shafer. *J Learning Through the Arts* vol 2, issue 1, 2006

Tina Allee, Christopher Payne: The Goals of IC/PBS Patients: What are they and how can they improve research and patient care? 37th Annual Meeting of the International Continence Society, August 2007, Rotterdam, Amsterdam. (medical scholars project to elucidate the language used by patients with painful bladder syndromes)

Cheri Blauwet: "The Paralympics: Promoting Health and Human Rights through Sport" chapter in "Beyond the Scoreboard, Youth employment opportunities and skills development in the sports sector." Copyright International Labour Organization, Geneva, 2006. ISBN 978-92-2-117968-9.

Also Cheri is currently in training for the 2008 Beijing Paralympics see www.cheriblauwet.com

Hugh Keegan: Van Bebber SL, Keegan HL, Phillips KA, Issa AM. Novel personalized medicine technology: *UGT1A1* testing for irinotecan as a case study. *Personalized Medicine* 2006; 3(4): 415-419 (project concerning ethical implications of pharmacogenetics as part of MPH at Berkeley)

Lori Rutman: Crawley, LaVera, Kagawa-Singer, Marjorie, Rutman, Lori Ellen, Chaudhary, Sarah. Racial, Cultural and Ethnic Factors Affecting the Quality of End-of-Life Care in California: Findings and Recommendations. *California Healthcare Foundation Publications*. March 2007.

<http://www.chcf.org/documents/chronicdisease/CulturalFactorsEOL.pdf> (also completed MPH at Berkeley)

Tracy So: Mobile Surgery: Bringing the OR to Underserved Populations of Rural Ecuador: A Photo Essay. See

<http://bioethics.stanford.edu/arts/SoPhotoEssay.html>

Joanna Wrede: Wrede JE. Papua New Guinea: Impressions in Words and Pictures. *SMSCJ*. 2005;9(1):12-19. (also Joanna published multiple articles and presented internationally her work in lymphoma research)

Chantal Forfota - co-editor-in-chief, H&P <http://bioethics.stanford.edu/arts/H&P.html> staff also includes BEMH students **Steven Lin, Alana Frost, Christina Chao**

SCBE Upcoming Events

February 5, March 4, April 1, 7:00 – 9:30 pm

First Tuesdays Evening Writing Group Series
SCBE Conference Room
701 Welch Road, A1113

February 28, 2008, 5:15 – 6:15 pm

The New Metaphors of AIDS
Abigail Zuger, MD
Columnist for the *New York Times*
Room M-112, School of Medicine
Reception following: 6:15 – 7:30 pm
Always Café, School of Medicine

February 29, 2008, 8:00 – 9:00 am

Pediatric Grand Rounds
Co-sponsored by SCBE
Ethical Roadmap to Translational Research
Lainie Friedman Ross, MD, PhD
Packard Auditorium
Lucille Packard Children's Hospital

April 3, 2008, 5:00 – 6:00 pm

Writers Forum@Stanford School of Medicine
Readings from Blake Charleton: *Spellwright*
(science fiction), Sarah Bein: *33 Hats for Julia*
(poetry), and David Kerns: *Standard of Care*
(novel)
Clark Center Auditorium
Booksigning and Reception: 6:00 – 7:00 pm
Clark Center Auditorium Lobby

April 26, 2008, 8:45 – 4:30

April One-Day Writing Workshop
Home of Audrey Shafer, Mountain View

May 2, 2008, 5:00 – 6:00 pm

Beautiful Sadness
A play by BEMH Concentrator, Steven Lin
Clark Center Auditorium
Reception following: 6:00 – 7:30 pm
Clark Center Auditorium Lobby

May 6, 2008, 5:00 – 7:00 pm

Medicine and the Muse: An Arts,
Humanities and Medicine Symposium
Anne Fadiman, Keynote Speaker and
Author, *The Spirit Catches You and
You Fall Down*
Clark Center Auditorium
Art Exhibit & Reception: 7:00 – 8:00 pm
Nexus Café, Clark Center

May 9, 2008, 1:00 – 6:00 pm

CIRGE Symposium
Gene and Environment Interaction
Clark Center Auditorium

October 14, 2008, 5:00 – 6:00 pm

Annual Jonathan J. King Lecture
Danielle Ofri, MD, PhD
Clark Center Auditorium
Reception: 6:00 – 7:00 pm
Clark Center Auditorium Lobby

Stanford Center for Biomedical Ethics

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