



January 2008

Biotech News

- Engineers design device to accurately pull adult stem cells out of live rats with far greater purity than any previous technique, by using hydrodynamics of moving blood.
<http://www.rochester.edu/news/show.php?id=3088>
- SBE member James Liao develops a method for producing high-octane biofuels in higher yields and titers by modifying E. coli.
<http://www.seas.ucla.edu/~liaoj/press.htm>
- Group induces quantum dots to emit photons faster and more consistently.
<http://www.internetchemie.info/news/2008/jan08/semiconductor-nanocrystals.html>
- Engineers develop tiny carbon nanopipettes for probing cells with minimal intrusion, and inject fluids without damaging or inhibiting cell growth.
<http://www.upenn.edu/pennnews/article.php?id=1300>
- International consortium will sequence 1000 genomes globally to help determine human genetic variation.
<http://www.genome.gov/26524516>

SBE Elections

SBE is holding elections over the next couple of weeks. Please [vote](#) so your input into SBE can be heard. Our slate of candidates and information about them follow:

- [Annelise Barron](#), *Stanford University*
- [William Bentley](#), *University of Maryland, College Park*
- [Carole Heath](#), *Amgen*
- [James McMillan](#), *National Renewable Energy Laboratory*.

You will need to vote for three of these four candidates. The deadline is February 20, 2008. You can vote at <http://www.aiche.org/sbe/Election/Election.aspx>

SBE Events

Last January, SBE held its first International Conference on Biomolecular Engineering. In the upcoming January/February issue of **Biotechnology Progress**, copublished by AIChE and ACS, you can now read some of the papers from this conference. Save the date so you can attend our 2nd International Conference on Biomolecular Engineering in Santa Barbara, California on January 18-22, 2009. Professor Ryan Gill of the University of Colorado and Dr. Sachdev Sidhu of Genentech will be chairing the event. More information is available at <http://www.aiche.org/ICBE>.

Call for Papers now Open – SBE's 4th International Conference on Bioengineering and Nanotechnology will be held on July 22-24, 2008 at the University College of Dublin, Ireland. Topics will include nanosystems for drug delivery, nanomaterials for cellular engineering and nanotools for bioengineering. Keynote and invited speakers include:

- Jérôme Bibette, *ESPCI, France*
- Frank Caruso, *University of Melbourne*
- Adam Cohen, *Harvard University*
- Kenneth Dawson, *University College Dublin*
- Dennis Discher, *University of Pennsylvania*
- Yves Dufrene, *Université Catholique de Louvain, Belgium*
- Ruth Duncan, *Cardiff University, U.K.*
- Nikolaj Gadegaard, *University of Glasgow*
- David Gracias, *Johns Hopkins University*
- Kevin Healy, *University of California, Berkeley*
- Jeffrey Hubbell, *Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland*
- Darrell Irvine, *Massachusetts Institute of Technology*
- Igor Medintz, *Naval Research Laboratory*
- David Mooney, *Harvard University*
- Paul Nealey, *University of Wisconsin at Madison*
- Tae Gwan Park, *Korea Advanced Institute of Science and Technology*
- Robert Prud'homme, *Princeton University*
- Christine Schmidt, *University of Texas at Austin*
- Samuel Stupp, *Northwestern University*
- Matthew Tirrell, *University of California at Santa Barbara.*

Find out more at <http://www.aiche.org/icbn>.

A complete bio-event calendar can be found at <http://www.aiche.org/SBE/Events/index.aspx>.

Join Now

Not a current SBE member? It's never too late to join or renew. Costs are \$75 for regular members, \$25 for graduate students, \$10 for AIChE, ACS and IBE members, or \$5 for undergraduates. Join now at <https://www.aiche.org/apps/ecommerce/bio/index.asp>.

Member benefits include:

- Subscription to SBE's semi-annual BioSupplement to Chemical Engineering Progress.
- Discounts on leading biological engineering conferences including SBE and SBE cosponsored meetings and courses.
- Access to online membership directory.
- A voice in education, employment and technology advancement topics.

Comments?

SBE's e-Connections is edited by Adrian Andrew Fay, Web Science Editor, with input from various SBE staff. Contact us at bio@aiiche.org

*The Society for Biological Engineering (SBE) is a new technological community of AIChE
Its mission is to promote the integration of biology with engineering and realize its benefits
through bioprocessing, biomedical, and biomolecular applications.
For comments and contributions to SBE Connections, email <mailto:bio@aiiche.org>*

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