



August 2006

Biotech News

- Scientists determine one of the key reaction steps that cause DNA mutation.
<http://www.gatech.edu/news-room/release.php?id=1106>
- Researchers restore normal memory and synaptic function in mice suffering from Alzheimer's disease, by returning function of ubiquitin C-terminal hydrolase L1.
http://www.cumc.columbia.edu/news/press_releases/Arancio_Shelanski.html
- Interleukin-27, a cytokine messenger protein, found as an inhibitor in inflammatory diseases.
<http://www.upenn.edu/researchatpenn/article.php?1096&hlt>
- For the first time, cellular biologists have shown that fatty acid synthesis is essential for Toxoplasma gondii's survival - a parasite that can harm or even kill a developing fetus, and sicken individuals with compromised immune systems.
http://www.uqa.edu/news/artman/publish/060814_Striepen.shtml
- Team develops new methods for screening how human cells interact with some specific types of carbon nanoparticles, to gauge their cytotoxicity.
http://www.bnl.gov/bnlweb/pubaf/pr/PR_display.asp?prID=06-96
- New Scanning Mass Spectrometry probe helps researchers capture both the biochemical makeup and topography of complex biological objects in their normal environment.
<http://www.gatech.edu/news-room/release.php?id=1056>

SBE Highlights

SBE is planning its 2nd annual student conference at the University of California, Los Angeles. Learn how to start up a student chapter at your school from students who have already taken the plunge. Hear from industry about career opportunities at leading biotechnology companies such as Amgen. Students from the U.S., Europe, and China are planning to attend. If you are interested in finding out more, email our Director of Student Affairs, [Jean-Francois Hamel](mailto:Jean-Francois.Hamel@ucsf.edu).

At this year's Chem-E-Car Competition, SBE is sponsoring a special award for the best car using a biological solution. Come see the competition on Sunday, November 12th, and watch the many unique solutions from 1-3pm.

SBE has awarded the James E. Bailey Award, endowed by Cytos Biotechnology, to the team of Robert Langer, Edwin Lightfoot, and Nicholas Peppas for their pioneering work in the field of biomedical engineering. Professor Langer will be delivering the Bailey Award Lecture on behalf of the team at the AICHE meeting in San Francisco on Monday, November 13th at 6pm.

Meetings Update

This year's **AICHE Annual Meeting** contains more bio programming than ever plus many awards winners. Plan your schedule now:

Sunday, November 12th

3-5:30 pm Industry and Government Leaders Roundtable on the Future of
Hilton Chemical Engineering.
Continental 4, 5 Hear what SBE Advisory Board Member Ann Lee of Genentech has
and 6 to say about the most important qualifications for engineers in
biotechnology.

Monday, November 13th

8:30-11 am Bionanotechnology Plenary Session
Hilton
Grand Ballroom A

8:30-11 am Plenary Session on Membranes and Bioseparations
Hilton
Continental 5

8:30-11 am Plenary Session US Japan Joint Topical Conference on Medical
12:30-3 pm Engineering, Drug Delivery and Therapeutic Systems
Hilton
Continental 4

2-3 pm Plenary Session on Opportunities and Challenges in Product Design
Hilton Robert Langer "Creating and Implementing Medical Technology"
Grand Ballroom A

6-7 pm SBE's James E Bailey Award Lecture
Hilton Awardees: Drs. Robert Langer, Edwin Lightfoot, and Nicholas
Grand Ballroom A Peppas

9-12 pm SBE's Hospitality Suite

Tuesday, November 14th

8:30-11 am Plenary Session II on Membranes and Bioseparations
Continental 5

12:30-5:45 pm Bionanotechnology Symposium honoring Professor Clark Colton
Continental 5

3:15-5:45 pm Special Systems Biology Session
Grand Ballroom A " Paradigms in Systems Biology"

Wednesday, November 15th

8:30-11 am Plenary Session III on Membranes and Bioseparations
Continental 5

3:15-5:45pm Division 15 Poster Session and Reception
Grand Ballroom B Cosponsored by SBE

3:15-5:45 pm Plenary Session: Sustainable Biorefineries
Continental 6

Friday, November 17th

8:30-11 am Biotechnology Tutorial and Panel Discussion
Imperial B

Calls for Papers open. SBE has opened the call for papers for two conferences, new in 2007.

- International Conference on Biomolecular Engineering (ICBE), January 14-18, 2007, Coronado Island, CA. www.aidhe.org/icbe
- Accelerating Biopharmaceutical Development, March 19-22, 2007, Coronado Island, CA www.aidhe.org/AcceleratingBio.

Training Courses

Join your colleagues in Montreal at the 19th Annual Bioprocess Technology Seminars on October 23-27. Seminars include:

- Bioreactor Process Technology
- Bioprocess Fermentation & Cell Culture Design & Scale-Up
- Bioprocess Technology Implementation
- Bio-Downstream Process Design & Economics
- Bioprocess Purification Process Development
- Cleaning Practices: Practical Implementation of CIP for Success
- Validation of Biopharmaceutical Facilities & Processes
- Bioreactor & Fermentor Design.

Register online at www.asmeconferences.org/bioprocess06 and use the promotion code 2088SB to receive your discount.

Join SBE

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.aidhe.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 our 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@aidhe.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@aidhe.org>*

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