



December 2009

▼ Biotech News

- An innovative "fly paper" with nano-sized features developed by researchers at UCLA is able to capture circulating tumor cells which can provide critical information for diagnosing cancer metastasis.
<http://newsroom.ucla.edu/portal/ucla/ucla-researchers-create-fly-paper-112652.aspx>
- Researchers have discovered a new approach for repairing damaged nerve fibers in spinal cord injuries using nanospheres that could be injected into the bloodstream after trauma.
<http://www.sciencedaily.com/releases/2009/11/091108131438.htm>
- SBE member, Sang Yup Lee and his team successfully developed a one step process to develop polylactic acid and its copolymers through direct fermentation.
<http://www.wiley.com/WileyCDA/PressRelease/pressReleaseId-63977.html>
- Researchers develop fully biodegradable organic transistors, opening up opportunities for implants in the body.
<http://www3.interscience.wiley.com/journal/122674990/abstract>
- SBE member, Nicholas Peppas, Sc.D., was selected to receive a generous grant from the National Cancer Institute to establish a center for innovative non-traditional cancer research that will engage trans-disciplinary scientific teams from fields of engineering, physics, mathematics, and chemistry.
<http://www.engr.utexas.edu/news/articles/200910271780/index.cfm>

▼ Society News

Professor **James C. Liao** from UCLA was awarded the **2009 James E. Bailey Award** at the AIChE Annual Meeting in Nashville. His award lecture entitled "**A Tale of Two Energy Problems: Fuel Shortage and Obesity**" was attended by over 600 members. For more information, [click here](#).

The **2009 SBE Distinguished Service Award in Biological Engineering** was awarded to **Miranda Yap** (Bioprocessing Technology Institute) and **Wei-Shou Hu** (University of Minnesota) for their dedication to the growth of the Society for Biological Engineering. For more info, [click here](#).

The new **CEP Biosupplement** is now available on-line, which focuses on how to enhance bioprocessing and includes the following articles: "**Using Genomic Tools to Improve the Production of Biologics**" by Jacob, Hu, Loo and Yap and "**Principles of Bioprocess Control**" by James Alford. Read the articles [here!](#)

Join us in congratulating **Professor Edward Merrill of MIT** who has been selected as the recipient of the **2010 Pierre Galletti Award of the American Institute of Medical and Biological Engineering (AIMBE)**. Please take a moment to congratulate Ed at emerrill@mit.edu.

Gates Foundation announced that 76 new global health projects received **Grand Challenges Explorations** grants to foster creative projects that show great promise to improve the health in the developing world. **Jennifer Maynard and Nicholas Peppas** of the University of Texas at Austin were awarded one of these competitive grants to create new ways to induce mucosal immunity. For more info, [click here](#).

Interested in Developing Energy Education Modules for the Undergraduate Chemical Engineering Curriculum? Apply for an AIChE Grand Energy Challenges Energy Education Module Grant. Submit your application by **February 15, 2010** to energymodules@aiche.org. For more info, [click here](#).

Subscribe today! **Biotechnology Progress**, SBE's official publication, delivers peer-reviewed research reports, reviews, and descriptions of emerging techniques for the development and design of new processes, products, and devices for the fast-evolving biotechnology and bioprocessing industries. For more info, [click here](#).

Conference Updates

Call for Papers! Deadline is January 22, 2010 for SBE's 2nd International Conference on Stem Cell Engineering at the Hyatt Harborside Hotel in Boston, MA from **May 2-5, 2010**, co-chaired by **Peter Zandstra** (University of Toronto) and **George Daley** (Children's Hospital Boston, Harvard Medical School). To see a complete list of our invited speakers, check out the [conference website](#).

Save the date! The 5th International Conference on Bioengineering and Nanotechnology (ICBN) will take place in Biopolis, Singapore from **August 1-4, 2010**. Chaired by **Jackie Ying**, for more info, [click here](#).

Register now! The Annual Event of American Institute for Medical and Biological Engineering (AIMBE) will be held on **February 21-23, 2010** at the Mandarin Oriental Hotel in **Washington DC**. For more info, [click here](#).

Student Affairs

Please join us in congratulating the **University of Idaho Chem-E-Car Team**, recipients of the 2009 SBE Chem-E-Car Award for their *Glucose Oxidase Enzyme Battery Powered Car with Iodine Clock Timing Reaction* for the **Best Use of a Biological Reaction to Power a Car**. To learn more, [click here](#).

SBE's Student Chapter at the **UIET at Panjab University** in Chandigarh, India organized the **Bio-Paradigm model making competition**. The event received an overwhelming response with over 100 Biotechnology students participating. Check out the photo gallery [here!](#)

Interested in starting an SBE Student Chapter at your school?

Contact Jonathan Monk at jonam@aiche.org

Comments?

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

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 free for undergraduates. Join now at <http://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.

*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 bio@aiiche.org*

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