



March 2006

Biotech News

- Biodegradable hydrogel developed for targeted disease treatment & tissue regeneration.
http://www.ibn.a-star.edu.sg/news_interface_article.php?articleid=78
- Scientists find gold nanorods are better than nanospheres in cancer treatment.
<http://www.gatech.edu/news-room/release.php?id=889>
- Engineers create fiber-optic probe to search for early stages of cancer in epithelial cells.
<http://www.pratt.duke.edu/news/releases/index.php?story=256>
- New fluorescent tag enables use of visible blue laser, less harmful to living cells.
<http://www.hhmi.org/news/lukyanov20060319.html>
- Researchers evolve virus to yield enhanced gene delivery vectors.
<http://www.aiche.org/uploadedFiles/SBE/Publications/EnhancedGeneDelivery.pdf>
- Engineering team focuses on chemical catalysis to boost ethanol production from corn.
<http://www.iastate.edu/~nscentral/news/2006/mar/catalyst.shtml>

SBE Highlights

The deadline is approaching for abstract submittal to SBE's upcoming International Conference on Bioengineering and Nanotechnology - April 30, 2006. The attached template ([word document](#)) can be used for submitting your abstract to icbn@aiiche.org. ICBN brings together leading researchers working at the interface of bioengineering and nanotechnology in sunny Santa Barbara, California on September 5-7, 2006. To find out more, go to <http://bio.aiche.org/icbn>. Funding for student travel is available for a limited number of students.

Start thinking about nominating your candidate to receive SBE's highest honor, the James Bailey Award. Cytos Biotechnology sponsors this award in memory of Professor Jay Bailey for his many pioneering contributions to biotechnology. Last year's award recipient, Professor Michael Shuler, director of Cornell's Biomedical Engineering department, described Bailey as "an articulate, visionary spokesperson for the field of biochemical engineering. His educational legacy touched many modern biochemical and biological engineers in the profession today." Information on the award and the nomination process can be found at <http://www.aiche.org/SBE/About/Awards.aspx>. Deadline - June 30.

2 SBE Members elected to the National Academy of Engineering. Professors Nicholas Peppas and Miranda Yap were both elected to this honorific academy honoring those who have made outstanding contributions to "engineering research,

practice, or education, including, where appropriate, significant contributions to the engineering literature," and to the "pioneering of new and developing fields of technology, making major advancements in traditional fields of engineering, or developing/implementing innovative approaches to engineering education." Professor Peppas, Fletcher Stuckey Pratt Chair in Engineering, University of Texas, Austin, was elected for contributions to the development of biomedical and drug-delivery applications of polymer networks and hydrogels. Professor Yap, SBE advisory board member and executive director and professor at Singapore's Bioprocessing Technology Institute, was elected for her outstanding achievements in education, research, and management in the field of mammalian cell culture. A complete list of those elected can be found [here](#).

Meetings Update

You still have time to register for these upcoming events:

[AIChE Spring National Meeting](#)

Special topical includes a panel on measuring industrial biotech productivity and sessions on green engineering and the business case for sustainability.

April 23-27, 2006

Orlando, FL

[ASME's Frontiers in Medical Devices](#)

Cosponsored by SBE

June 8-9, 2006

Irvine, CA

[SBE's 2nd International Conference on Bioengineering and Nanotechnology](#)

September 5-7, 2006

Santa Barbara, CA

Mark your calendar now for 2007 events:

[SBE's 1st International Conference on Biomolecular Engineering](#)

January 15-18, 2007

San Diego, CA

[SBE's Conference on Accelerating Biopharmaceutical Product Development](#)

March 19-22, 2007

San Diego, CA

A complete bio-event calendar can be found at

<http://www.aiche.org/SBE/Events/index.aspx>

Career Central

Need a job? Or Need to fill one? – You can post your position to be filled or look at our extensive listing for academic and full-time or summer positions at companies throughout the U.S. at <http://www.aiche.org/SBE/Careers/Find.aspx>.

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.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.

Find out more at <http://www.aiche.org/SBE/index.aspx>

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

*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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