



September 2006

Biotech News

- Physicists discover how knotted proteins may help them rescue other proteins marked for destruction.
<http://web.mit.edu/newsoffice/2006/knots-0920.html>
- Chemists create new polymers by adding DNA base pairs to make stretchable, self-healing films and coatings.
<http://www.vtnews.vt.edu/story.php?relyear=2006&itemno=413>
- Microbiologists discover a key in the metathesis process for cancer cells, how such cells switch from stationary epithelial cells to migratory mesenchymal cells.
<http://www.dukemednews.org/news/article.php?id=9869>
- Scientists identify genes that are unique to human unfertilized eggs, as opposed to human embryos, to determine which may play a role in stem cell production.
<http://newsroom.msu.edu/site/indexer/2840/content.htm>
- Researchers learn how nanocantilevers may be more sensitive sensors by using differences in their resonant frequency for detection.
<http://news.uns.purdue.edu/UNS/html4ever/2006/060828.Bashir.nanocant.html>

SBE at the AIChE Annual Meeting in San Francisco

Sunday, November 12th

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|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 - 3 pm
Hilton | Chem-E-Car Competition
SBE Award: Best Biologically Designed Chem-E-Car |
| 3 - 5:30 pm
Hilton
Continental 4-6 | Industry and Government Leaders Roundtable on the Future of Chemical Engineering.
SBE Advisory Board Member Ann Lee of Genentech discusses the most important qualifications for engineers in biotechnology and the future of biological engineering. |

Monday, November 13th

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| 6 - 7 pm
Hilton
Grand Ballroom A | SBE's James E. Bailey Award Lecture
" Biomedical and Chemical Engineering: Status and Future Directions," Robert Langer (MIT). Co-winners Edwin Lightfoot (U. Wisconsin) and Nicholas Peppas (U.Texas, Austin) |
| 9 - 12 pm
Hilton | SBE's Merck Hospitality Suite
Free to all SBE members |

Wednesday, November 15th

3:15 - 5:45pm
Hilton
Grand Ballroom B

Division 15 Poster Session and Reception
Cosponsored by SBE

Meetings Update

Call for Papers — Deadline Extended

This is your last chance to submit your abstract for presentation at SBE's International Conference on Biomolecular Engineering, January 14-18, 2007 in Coronado Island, CA. Support for students will be available. Topics include:

- Evolutionary Engineering of Proteins
- Biomolecular Probes as Diagnostic and Therapeutic Reagents
- Experimental and Computational Tools for the Design of Engineering of Biomolecules
- Evolutionary and Combinatorial Approaches to Metabolic Pathway and Strain Improvement
- Intracellular and Intercellular Signaling Pathways and Networks
- Biophysical and Microscale Analyses of Molecular and Cellular Function
- Genomic, Proteomic and Metabolomic Approaches for Modifying Cellular Processes
- Synthetic Biology
- Computational Systems Biology.

Submit your abstract for oral or poster presentation online at <http://www.aiche.org/sbe/events/icbe/callforpapers.aspx>

SAVE THE DATE. Also accepting papers is SBE's Conference on Accelerating Biopharmaceutical Development, March 19-22, 2007, Coronado Island, CA. This conference focuses on the development of the manufacturing processes of biological and pharmaceutical products. Find out more at www.aiche.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.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 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@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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