



May 2008

Biotech News

- Engineers develop a wireless, implantable passive micro-dosimeter designed to be injected into a tumor that can tell doctors the exact position of the tumor and dosage of radiation received.
<http://news.uns.purdue.edu/x/2008a/080408ZiaieDosimeter.html>
- Scientific team shows how two proteins locate and repair damaged genetic material inside cells by determining the crystal structures of two related DNA-repair proteins. This knowledge could allow for the design of a molecule that could interfere with the repair of damaged malignant cancer cell, making cancer treatment more effective.
http://news.uchicago.edu/news.php?asset_id=1340
- Biomedical Engineers develop biodegradable microspheres that can deliver molecules such as growth factors to stem cells that for enhanced stem cell differentiation. Better control of cell differentiation into muscle, bone, skin, blood vessels or neurons will improve the clinical utility of this therapy.
<http://www.gatech.edu/newsroom/release.html?id=1814>
- This summer, the U.S. Department of Energy (DOE) will issue stage 2 and 3 loan guarantee solicitations for up to \$38.5 billion for projects that employ advanced technologies that avoid, reduce or sequester emissions of air pollutants and greenhouse gases. The program encourages the development of new energy technologies.
<http://www.energy.gov/news/6152.htm>
- Two SBE members, Christina Smolke of the California Institute of Technology and Michael Strano of the Massachusetts Institute of Technology, won Research Fellowship Awards from the Alfred P. Sloan Foundation. To view the complete list of recipients, go to <http://www.sloan.org/programs/fellowshiplist.shtml>

SBE Partners with UTEK

SBE has partnered with UTEK, a leader in Open Innovation, to help our individual and corporate members connect with external sources of R&D. UTEK has relationships with a global network of over 2000 universities, research laboratories and member companies that they can draw upon for both in-licensing and out-licensing of technologies. UTEK uses a market-driven approach to identify technologies for companies that still allows research institutions to receive 100% of the royalties. UTEK has successfully transferred over 100

technologies including life science solutions to pharmaceutical, biotech, neutraceutical, device, imaging and diagnostic businesses.

Now open to all members of SBE is **free membership** to UTEK's TekScout, an online network of scientists and engineers. Membership to TekScout provides you with access to hundreds of unfinished R&D projects that companies have posted. SBE scientists can earn valuable fees and contribute in their fields of expertise and success if they can solve these challenges.

Between now through September 2008, any SBE member can [join TekScout](#) with a one year subscription for FREE. After your first year, if you choose to continue your subscription, you'll pay a special SBE rate of \$50.00 per year. The rate for scientists who are not SBE members will be \$100 per year. Register today to be notified of opportunities in your area of expertise, and start earning money for your knowledge.

Learn more about [UTEK](#).

[SBE Conferences](#)

SBE has extended its call for paper for its **4th International Conference on Bioengineering and Nanotechnology (ICBN)** to May 15, 2008. This Gordon-style conference will be held on July 22-24, 2008 at the University College of Dublin, Ireland. The meeting offers an interesting mix of nanoscale science and bioengineering topics that cover nanosystems for drug delivery, nanomaterials for cellular engineering and nanotools for bioengineering. Find out more at <http://www.aiche.org/icbn>.

You may also want to save the following dates. SBE is once again organizing its second **International Conference on Biomolecular Engineering**. Ryan Gil of the University of Colorado and Sachdev Sidhu of the University of Toronto are chairing the event. The date and location are January 18-22, 2009 in Santa Barbara, CA. Go to <http://www.aiche.org/ICBE> to find out more.

Co-chairs Bob Adamson of Wyeth and Chuck Goochee of Johnson and Johnson are planning SBE's second **International Conference on Accelerating Biopharmaceutical Development**. The conference will take place at the newly renovated Marriott Coronado Island Resort on March 7-10, 2009. Go to <http://www.aiche.org/AcceleratingBio> to find out more.

[Accepting Nominations](#)

In memory of Professor Jay Bailey for his many pioneering contributions to biotechnology, SBE's Bailey award is presented to an individual who has had an important impact on bioengineering and whose achievements, either specific or general, have advanced this profession in any of its aspects. Award winners include Michael Shuler of Cornell University, Robert Langer of MIT, Edwin Lightfoot of the University of Wisconsin, Nicholas Peppas of the University of Texas at Austin and George Georgiou at the University of Texas at Austin. You can nominate your colleague by following the instructions at <http://www.aiche.org/SBE/About/Awards.aspx>

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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 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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