



October 2009

## Biotech News

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- An injectable biomaterial gel, made up of both synthetic and natural sources, has the potential to spur the growth of a patient's own neural stem cells, repairing traumatic brain injury.  
[http://www.clemson.edu/media-relations/article.php?article\\_id=2198](http://www.clemson.edu/media-relations/article.php?article_id=2198)
- Using electron microscopy techniques, researchers for the first time visualize and describe the precise arrangement of chemoreceptors in bacteria.  
[http://media.caltech.edu/press\\_releases/13290](http://media.caltech.edu/press_releases/13290)
- Researchers demonstrate how metformin, used for the treatment of diabetes, inhibits cellular transformation and selectively kills cancer stem cells.  
<http://cancerres.aacrjournals.org/cgi/rapidpdf/0008-5472.CAN-09-2994v1.pdf>
- SBE member Tillman U. Gerngross and K. Dane Wittrup formed Adimab, a yeast-based antibody discovery and optimization platform, providing human IgG as potential drug candidates.  
[http://pubs.acs.org/cen/email/html/cen\\_email\\_cen\\_87\\_i30\\_8730bus2.html](http://pubs.acs.org/cen/email/html/cen_email_cen_87_i30_8730bus2.html)
- Solazyme wins US Department of Defense contract to provide US Navy with the world's first 100% algae-based biofuel.  
<http://www.solazyme.com/media/2009-09-24-0>

## Society News

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- Register today for our next webinar! Join **Professor Bruce Dale** as he discusses the advances he expects to occur in the developing biofuels industry. He will specifically examine where invention and innovation are likely to occur in the cellulosic biofuels industry (emphasizing the so-called sugar platform). October 22, 2:00-3:00 pm (EDT). [Click here](#) for more information!
- It's not too late! The **2009 AICHE Annual Meeting** will take place in Nashville, TN from **November 8-13**. [Click here](#) to learn more.

Special SBE Events include:

- **SBE's Bioenergy Symposium: Transportation Fuels from Coal and Biomass: Review of an NRC Report-Monday, November 9th from 3:15-5:45 pm.** This session will explore the technological status, costs, and environmental impacts of coal and biomass conversion.
- Please join us in congratulating **James C. Liao** from UCLA, the **2009 James E. Bailey Award** recipient. Professor Liao will give his award lecture on Tuesday, November 10th at 6:00 – 7:00 pm. The title of his talk is "**A Tale of Two Energy Problems: Fuel Shortage and Obesity.**"
- The **SBE Hospitality Suite** will take place on the same evening as the award reception, at **9:00-11:00 pm**. We hope to see you there!
- Due to popular demand, SBE will once again offer its **Biology for Chemical Engineers** course, designed for professionals who would like to learn more about biotechnology. To learn more, [click here](#).
- SBE strives to encourage and recognize students in biological engineering and

related fields. SBE is currently sponsoring a \$1000 award for the **Best Use of a Biological Reaction to Power a Car** during this year's **Chem-E-Car Competition**. To learn more, [click here](#).

- **Call for Papers:** 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](#).
- Join now! Raise your profile in the biological engineering community and gain access to physical property data for biomass and biofuels by becoming an **SBE Green Corporate Member** today. Check out <http://www.aiche.org/SBE/DIPPR.aspx> today for more information!
- Join us in congratulating **Dr. Nicholas A. Peppas**, SBE member and Bailey Award recipient, who has been appointed as the Chair of the Department of Biomedical Engineering at the University of Texas at Austin, effective September 1, 2009. For more information, [click here](#).
- Congratulations to SBE's two newest student chapters at the **University of Pennsylvania** and UIET at **Panjab University** in India. The objective of student chapters is to provide a professional home to those who will reshape and redefine the biological and chemical industries as we currently know them. Help us catalyze the future by shaping your society today. We welcome you to SBE! For information on starting student chapters at your institution [click here](#).
- Come join us! SBE is now on **LinkedIn**, **Facebook** and **Twitter**. SBE has gone live with social media platforms in order to create an online community where we can share the latest information in biological engineering and discuss trends and best practices. Look for us on [LinkedIn](#), [Facebook](#), and [Twitter](#)!
- **Biotechnology Progress**, published six times a year in print and continuously online by Wiley-Blackwell on behalf of AIChE and SBE, is looking for candidates for an Associate Editor who can succeed to the Editorship. For more information, [click here](#).
- SBE is launching a new **Industrial Biotechnology Newsletter**. Keep up to date with what's going on in the industrial biotech industry. If you want to start receiving the SBE Industrial Biotechnology monthly newsletter, send us an email at [bio@aiiche.org](mailto:bio@aiiche.org).
- SBE will soon be holding an election for its **Managing Board** as board members complete the third year of their term. If you would like to nominate a candidate for consideration by the Election Committee, please email us at [bio@aiiche.org](mailto:bio@aiiche.org) with the candidate's name.

## Join Now

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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 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.

## Comments?

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SBE's *e-Connections* is edited by Adrian Andrew Fay, Web Science Editor, with input from SBE staff. Contact us at [bio@aiiche.org](mailto: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 [bio@aiiche.org](mailto:bio@aiiche.org)***

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