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| http://images.magnetmail.net/images/template/acs/gold.gif In This Edition  |  | | --- | | [New approaches for controlling pesticide exposure in children](#1)  [Paving the way for greater use of ancient medical knowledge](#ARTICLE_2)  [Paraffin encapsulated in beach sand material as a new way to store heat from the sun](#3)  [Opera’s poisons and potions connect students with chemistry](#4)  [Will natural gas exports raise prices for consumers?](#5) |  |  | | --- | | [**Journalists’ Resources:**](#Resources)  [About the Weekly PressPac](#About)  [News media registration for ACS’ 245th National Meeting & Exposition in New Orleans](#press)  [Press releases, briefings and more from ACS’ 244th National Meeting](#registration)[Inside Science News Service](#InsideScience)  [C&EN Video Spotlight: Crowdsourcing and Open Science to Check Chemical Reactions](#VideoSpotlight)  [Must-Read from C&EN: Drones Enlisted in Climate Change Research](#mustread)  [ACS Pressroom Blog](#pressroomblog)   [Bytesize ScienceBlog](#bytesizeblog)  [ACS Satellite Pressroom: Daily news blasts on Twitter](#twitter) [C&EN on Twitter](#CENTwitter)  [ACS Press Releases](#releases) |  |  | | --- | | [**ACS Videos:**](#Videos) [Spellbound: A video series on how kids became scientists](#Spellbound)  [Prized Science video series](#Dance)  [The Periodic Table Table Featuring Theo Gray](#Mars)  [Healing the voice: Synthetic vocal cords](#daywithoutchemistry)  [The Chemistry of Beer](#Beer)  [The Chemistry of Cheese](#Cheese)  [Without a Scratch: Self-Healing Materials](#Scratch) |  |  | | --- | | [**ACS Podcasts:**](#podcasts)     [Bytesize Science: A podcast for young listeners](#globalchallenges)  [Global Challenges/Chemistry Solutions](#Bytesizescience)    [Science Elements: From the PressPac](#Scienceelements) |  |  | | --- | | [**And Don't Miss:**](#dontmiss)  [Chemistry Glossary](#glossary) |   [PressPac Archives](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080134&m=2522339&u=ACS&j=13387927&s=http://portal.acs.org/portal/acs/corg/content?_nfpb=true&_pageLabel=PP_PRESSPACS&node_id=223&use_sec=false&sec_url_var=region1&__uuid=a0c923e3-c385-4d96-bdc8-eadaa07eb02f) | **ACS NEWS SERVICE Weekly Press Package - March 13, 2013   ALL CONTENT IS FOR IMMEDIATE RELEASE  Please credit the individual journal or the American Chemical Society as the source for this information.**  Here is the latest American Chemical Society (ACS) Weekly PressPac from the Office of Public Affairs. It has news from ACS’ more than 40 peer-reviewed journals and Chemical & Engineering News.  Science Inquiries: Michael Woods, editor [m\_woods@acs.org](mailto:m_woods@acs.org) 202-872-6293  General Inquiries: Michael Bernstein [m\_bernstein@acs.org](mailto:m_bernstein@acs.org)  202-872-6042  Follow us: [http://images.magnetmail.net/images/clients/ACS/Twitter1(1).png](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080135&m=2522339&u=ACS&j=13387927&s=https://twitter.com/ACSpressroom)  [http://images.magnetmail.net/images/clients/ACS/Facebook.jpg](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080136&m=2522339&u=ACS&j=13387927&s=https://www.facebook.com/pages/American-Chemical-Society-Press-Room/130342583687829)  ARTICLE #1 **FOR IMMEDIATE RELEASE**  **New approaches for controlling pesticide exposure in children** Environmental Science & Technology   |  | | --- | | http://images.magnetmail.net/images/clients/ACS/031313insecticidespraythumb.jpg Instead of relying too heavily on traditional pesticides, people should embrace “integrated pest management” measures, such as filling cracks in walls that let insects in and damp conditions that attract pests. Credit: Hemera/Thinkstock |   New research on household pesticide contamination emphasizes the need for less reliance on pesticides and more emphasis on neatness, blocking cracks where insects can enter and other so-called "integrated pest management” (IPM) measures, scientists have concluded. Their study appears in the ACS’ journal Environmental Science & Technology.  Chensheng Lu and colleagues cite previous studies showing that urban, low-income, multifamily, public housing dwellings are prone to severe pest infestation problems. Families in Boston public housing developments, for instance, rank pest infestation, pesticide use and pest allergies second only to crime as matters of concern. In an effort to encourage use of IPM, which reduces reliance on traditional pesticides, Lu’s team studied exposure to 19 pesticides among children in 20 families in Boston’s public housing.  They found pesticides in all of the homes, along with indications — such as sighting of live pests or pest debris — that traditional pesticides were not effective. “The results from the current study, as well as other recent studies, conducted in low-income public housing, child care centers and randomly selected homes in the U.S. should accentuate the need for alternative pest management programs,” the report states. IPM focuses on eliminating the cause of pest infestations by minimizing access to food, water, hiding places, and sealing cracks and other openings in walls to prevent entry of pests.  The authors acknowledge funding from the [National Institute of Environmental Health Sciences](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080137&m=2522339&u=ACS&j=13387927&s=http://www.niehs.nih.gov/).   |  | | --- | | http://images.magnetmail.net/images/clients/ACS/031313estthumb.jpg [Click here](http://www.mmsend88.com/link.cfm?r=800557068&sid=23107368&m=2522339&u=ACS&j=13387927&s=http://web.1.c2.audiovideoweb.com/1c2web3536/031313esthires.jpg) for high-resolution image |   ARTICLE #1 **FOR IMMEDIATE RELEASE** “Household Pesticide Contamination from Indoor Pest Control Applications in Urban Low-Income Public Housing Dwellings: A Community-Based Participatory Research”  [DOWNLOAD FULL TEXT ARTICLE](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080138&m=2522339&u=ACS&j=13387927&s=http://pubs.acs.org/stoken/presspac/presspac/full/10.1021/es303912n)   CONTACT: Chensheng Lu, Ph.D. Department of Environmental Health Harvard School of Public Health 401 Park Drive Landmark Center West  Boston, Mass. 02215 Phone: 617-998-8811 Email: [cslu@hsph.harvard.edu](mailto:cslu@hsph.harvard.edu)  [To Top](#top)  http://images.magnetmail.net/images/clients/ACS/goldline.gif  ARTICLE #2 **FOR IMMEDIATE RELEASE**  **Paving the way for greater use of ancient medical knowledge** Journal of Chemical Information and Modeling   |  | | --- | | http://images.magnetmail.net/images/clients/ACS/928031313chinesemedicinethumbnew.jpg A new algorithm, or step-by-step procedure for analyzing data, solves the mystery of how traditional Chinese and Indian medicines work in the human body.Credit: iStockphoto/Thinkstock |   Scientists are reporting an advance toward overcoming a major barrier to tapping the potential of traditional Chinese medicine (TCM) and India’s Ayurvedic medicine in developing new and more effective modern drugs. Their report appears in ACS’ Journal of Chemical Information and Modeling.  Andreas Bender and colleagues explain that TCM has made key contributions to modern medicine. In the world’s largest international clinical trial, for instance, scientists concluded that Artesunate, a derivative of the Chinese herb qinghao, should replace quinine as a treatment for severe malaria in both adults and children worldwide. Traditional medicines have a track record in benefiting human health that spans thousands of years. However, gaps in knowledge about how these medicines work in the body, their “mode of action” (MOA) — limit their use today. Information about a drug’s MOA is important for better understanding of both the beneficial effects and side effects of treatments.  They describe an algorithm that can help explain how these substances work in the body, and use of it to help understand the MOA of traditional anti-inflammatory medicines. An algorithm is a step-by-step procedure to generally analyze data, which the scientists applied to predicting how the active chemical ingredients in traditional medicines affect biological processes. “By establishing the MOA of these compounds, the gap between Western and traditional medicine can be reduced,” the report concluded.   The authors acknowledge funding from [Unilever](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080139&m=2522339&u=ACS&j=13387927&s=http://www.unilever.com/), [Universiti Teknologi MARA](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080140&m=2522339&u=ACS&j=13387927&s=http://www.uitm.edu.my/index.php/en) (UiTM) and the [Ministry of Higher Education of Malaysia](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080141&m=2522339&u=ACS&j=13387927&s=http://www.mohe.gov.my/educationmsia/index.php?article=mohe).   |  | | --- | | http://images.magnetmail.net/images/clients/ACS/031313cheminfothumb.jpg [Click here](http://www.mmsend88.com/link.cfm?r=800557068&sid=23107369&m=2522339&u=ACS&j=13387927&s=http://web.1.c2.audiovideoweb.com/1c2web3536/031313cheminfohires.jpg) for high-resolution image |   ARTICLE #2 **FOR IMMEDIATE RELEASE** “Chemogenomics Approaches to Rationalizing the Mode-of-Action of Traditional Chinese and Ayurvedic Medicines”  [DOWNLOAD FULL TEXT ARTICLE](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080142&m=2522339&u=ACS&j=13387927&s=http://pubs.acs.org/stoken/presspac/presspac/full/10.1021/ci3005513)  CONTACT: Andreas Bender, Ph.D.  Unilever Centre for Molecular Science Informatics Department of Chemistry University of Cambridge Lensfield Road, Cambridge CB2 1EW United Kingdom Phone: +44-1223-762983 Email: [ab454@cam.ac.uk](mailto:ab454@cam.ac.uk)  [To Top](#top)  http://images.magnetmail.net/images/clients/ACS/goldline.gif  ARTICLE #3 **FOR IMMEDIATE RELEASE  Paraffin encapsulated in beach sand material as a new way to store heat from the sun** ACS Sustainable Chemistry & Engineering   |  | | --- | | http://images.magnetmail.net/images/clients/ACS/031313sandwaxthumbnew.png Combining a mixture of sand and paraffin wax produces a more sustainable material for storing heat from the sun for use at night. [*Click here*](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080143&m=2522339&u=ACS&j=13387927&s=http://web.1.c2.audiovideoweb.com/1c2web3536/031313sandwaxhires.png) for a high-resolution image.Credit: American Chemical Society |   The search for sustainable new materials to store heat captured from the sun for release during the night has led scientists to a high-tech combination of paraffin wax and sand. Their report on the heat-storing capability of this microencapsulated sand appears in ACS Sustainable Chemistry & Engineering.  Benxia Li and colleagues explain the need for better materials that can store and release heat. These so-called “phase-change” materials” (PCMs) are essential, for instance, for storing heat from the sun for use in providing energy at night or during cloudy periods. PCMs absorb, store and release heat when changing “phases” from a solid to a liquid and vice versa. They have applications that range from expanding use of solar energy to heat-regulating greenhouses to clothing that keeps soldiers or campers warm on cold nights outdoors. Existing PCMs have disadvantages, such as the tendency to leak or catch fire, and Li’s team set out to find a better material.  They describe a new approach to using paraffin as a PCM. Made from petroleum, paraffin is a waxy material that absorbs heat, melts into a liquid and releases heat as it solidifies. It involves encapsulating paraffin into tiny spheres of silicon dioxide, the stuff of beach sand. The microencapsulated paraffin has several advantages, including a large surface area that can transfer heat, less reactivity with the environment and less likelihood of leaking as it changes phases. Li’s team reports successful tests of the material for 30 melting-solidifying cycles with no leaks at a temperature of 158 degrees Fahrenheit. “The high heat storage capability and good thermal stability of the composite enable it to be a potential material to store thermal energy in practical applications,” the report concluded.  The authors acknowledge funding from the [National Natural Science Foundation of China](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080144&m=2522339&u=ACS&j=13387927&s=http://www.nsfc.gov.cn/e_nsfc/desktop/zn/0101.htm), the [National Basic Research Program of China](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080145&m=2522339&u=ACS&j=13387927&s=http://www.973.gov.cn/English/Index.aspx), and the Young and Middle-aged Backbone Teachers Fund of [Anhui University of Science and Technology](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080146&m=2522339&u=ACS&j=13387927&s=http://www.at0086.com/AUST/).   |  | | --- | | http://images.magnetmail.net/images/clients/ACS/031313sustainchemthumb.jpg [Click here](http://www.mmsend88.com/link.cfm?r=800557068&sid=23107370&m=2522339&u=ACS&j=13387927&s=http://web.1.c2.audiovideoweb.com/1c2web3536/031313sustainchemhires.jpg) for high-resolution image |   ARTICLE #3 **FOR IMMEDIATE RELEASE** “Fabrication and Properties of Microencapsulated Paraffin@SiO2 Phase Change Composite for Thermal Energy Storage”  [DOWNLOAD FULL TEXT ARTICLE](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080147&m=2522339&u=ACS&j=13387927&s=http://pubs.acs.org/stoken/presspac/presspac/full/10.1021/sc300082m)  CONTACT: Benxia Li, Ph.D. School of Materials Science and Engineering Anhui University of Science and Technology Huainan, Anhui 232001 China Phone: 86-554-6668649 Fax: 86-554-6668643 Email: [libx@mail.ustc.edu.cn](mailto:libx@mail.ustc.edu.cn)  [To Top](#top)  http://images.magnetmail.net/images/clients/ACS/goldline.gif    ARTICLE #4 **FOR IMMEDIATE RELEASE: A PressPac Instant Replay\***  **Opera’s poisons and potions connect students with chemistry** Journal of Chemical Education   |  | | --- | | http://images.magnetmail.net/images/clients/ACS/031313poisonoperathumbnew.jpg Poisons and potions in famous operatic plots could teach students and the general public about chemistry.[*Click here*](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080148&m=2522339&u=ACS&j=13387927&s=http://web.1.c2.audiovideoweb.com/1c2web3536/020613poisonoperahires.jpg) for a high-resolution image. Credit: American Chemical Society |   Opera audiences can feel the chemistry in romance-inspired classics like Mimi's aria from La Bohème, Cavaradossi’s remembrance of his beloved while awaiting execution in Tosca and that young lady pining for her man with “O mio babbino caro” in the opera Gianni Schicchi. An article in ACS’ Journal of Chemical Education, however, focuses on the real chemistry — of poisons and potions — that intertwines famous operatic plots.  João Paulo André points out that opera, in addition to being a form of theater, can be used as a teaching tool for chemistry students and the general public. In the article, based on an interactive lecture given at the University of Minho in Portugal and at other venues during the International Year of Chemistry, he cites numerous examples of themes involving chemistry that thread their way through some of the most famous operas.  One, for instance, is Samuel Barber’s opera Antony and Cleopatra. In the opera, Cleopatra takes her own life with a bite from a poisonous snake. The author explains the chemistry of snake bites and venom. A complex mix of neurotoxins, venom causes destruction of the victim’s tissues and even death. Others include Ambroise Thomas’ Hamlet, Verdi’s Simon Boccanegra and Mozart’s Mitridate, Re di Ponto.  The author acknowledges funding from [Foundation for Science and Technology](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080149&m=2522339&u=ACS&j=13387927&s=http://www.fct.pt/), [QREN](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080150&m=2522339&u=ACS&j=13387927&s=http://www.qren.pt/np4/home), [FEDER/EU](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080151&m=2522339&u=ACS&j=13387927&s=http://www.picardie-europe.eu/les-programmes-operationnels/feder.html) and [Ciência Viva, Portugal](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080152&m=2522339&u=ACS&j=13387927&s=http://www.cienciaviva.pt/home/).   |  | | --- | | http://images.magnetmail.net/images/clients/ACS/031313chemedthumb(1).jpg [Click here](http://www.mmsend88.com/link.cfm?r=800557068&sid=23107371&m=2522339&u=ACS&j=13387927&s=http://web.1.c2.audiovideoweb.com/1c2web3536/031313chemedhires.jpg) for high-resolution image |   ARTICLE #4 **FOR IMMEDIATE RELEASE** “Opera and Poison: A Secret and Enjoyable Approach To Teaching and Learning Chemistry”  [DOWNLOAD FULL TEXT ARTICLE](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080153&m=2522339&u=ACS&j=13387927&s=http://pubs.acs.org/stoken/presspac/presspac/full/10.1021/ed300445b) CONTACT: João Paulo André University of Minho  Campus of Gualtar Department of Chemistry 4710-057 Braga Portugal Phone: +253604385 Fax: +253604382 Email: [jandre@quimica.uminho.pt](mailto:jandre@quimica.uminho.pt)  **\*A previous PressPac item that you may have missed**     [To Top](#top)  http://images.magnetmail.net/images/clients/ACS/goldline.gif  ARTICLE #5 **FOR IMMEDIATE RELEASE**  **Will natural gas exports raise prices for consumers?** Chemical & Engineering News   |  | | --- | | http://images.magnetmail.net/images/clients/ACS/031313CENcoversmall.jpg [Click here](http://www.mmsend88.com/link.cfm?r=800557068&sid=23107372&m=2522339&u=ACS&j=13387927&s=http://web.1.c2.audiovideoweb.com/1c2web3536/031313CENcover.jpg) for high-resolution image. |   How much of the United States’ newfound bounty of natural gas should stay at home, keeping prices low for domestic customers? How much should be earmarked for export in the form of liquefied natural gas (LNG), at the risk of making natural gas pricier? Those questions are the topic of the cover story in the current edition of Chemical & Engineering News (C&EN), the weekly newsmagazine of the American Chemical Society, the world’s largest scientific society.  C&EN’s Jeff Johnson and Alexander H. Tullo explain in the story that hydraulic fracturing and other technologies are boosting domestic natural gas supplies. By 2020, the U.S. actually may have a natural gas surplus, producing more than the total domestic consumption. Oil and gas companies already envision construction of about 17 new LNG shipping terminals, which could export LNG equivalent to fully one-third of current domestic consumption.  The article discusses conflicting views on how exports on such a massive scale might affect prices paid by consumers, including the chemical industry, which uses natural gas as a mainstay raw material. Exporters claim it will have little impact on domestic prices and will have beneficial effects of creating jobs and bolstering the economy. Consumers worry that exports will raise domestic prices, hike manufacturing costs and undercut their international competitiveness.   ARTICLE #5 **FOR IMMEDIATE RELEASE** "The Gas Wars"  This story is available at: [http://cenm.ag/gas](http://www.mmsend88.com/link.cfm?r=800557068&sid=23107373&m=2522339&u=ACS&j=13387927&s=http://cenm.ag/gas)    [To Top](#top)  http://images.magnetmail.net/images/clients/ACS/goldline.gif    **Journalists’ Resources** **About the Weekly PressPac** The ACS Weekly PressPac consists of summaries of research published in the American Chemical Society’s more than 40 peer-reviewed journals and its weekly newsmagazine, Chemical & Engineering News. ACS journals publish more than 35,000 articles annually. Although not traditional press releases, PressPac content can be used to prepare news stories, in conjunction with the full-text PDF and an interview with the authors. PressPac stories and the accompanying full-text PDFs also can be an excellent resource for features and background.  **News media registration for ACS’ 245th National Meeting & Exposition in New Orleans** News media [registration](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080155&m=2522339&u=ACS&j=13387927&s=https://www.xpressreg.net/register/acsa043/media/reginfo.asp) is now open for the American Chemical Society’s 245th National Meeting & Exposition in New Orleans, April 7-11, 2013. The event will include almost 12,000 reports on new discoveries in medicine and health, food and nutrition, energy, the environment and other fields where chemistry plays a central role. One of the largest scientific conferences of 2013, the meeting will take place at the Ernest N. Morial Convention Center and area hotels.  To view the full news release about meeting registration, [click here](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080156&m=2522339&u=ACS&j=13387927&s=http://portal.acs.org/portal/acs/corg/content?_nfpb=true&_pageLabel=PP_ARTICLEMAIN&node_id=222&content_id=CNBP_031828&use_sec=true&sec_url_var=region1&__uuid=a563a716-754e-4dda-b033-8128b87b7fb7).  **Press releases, briefings and more from ACS’ 244th National Meeting** [www.eurekalert.org/acsmeet.php](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080157&m=2522339&u=ACS&j=13387927&s=http://www.eurekalert.org/acsmeet.php)  [www.ustream.tv/channel/acslive](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080158&m=2522339&u=ACS&j=13387927&s=http://www.ustream.tv/channel/acslive%20) **Inside Science News Service** For thoroughly enjoyable multimedia coverage of the science behind the news — a valuable resource for journalists and news media organizations everywhere. [Click here](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080159&m=2522339&u=ACS&j=13387927&s=http://www.insidescience.org/) to visit the Inside Science News website.  **C&EN Video Spotlight: Crowdsourcing and Open Science to Check Chemical Reactions** What do you get when you combine crowdsourcing, chemistry and the spirit of TV show “America’s Test Kitchen”? You get a new website called Blog Syn. It sprung up in January, with the purpose of checking chemical reactions to determine how reliable they are and reporting the results to chemists around the world. The chemists behind Blog Syn are trying to help with a major chemistry bugaboo — it turns out that published “recipes” for chemical compounds don’t always work the first time they’re tried or work consistently. Blog Syn has some established competition, but as C&EN Senior Editor Carmen Drahl reports, its founders think that their crowdsourcing approach will give them the speed to stake out a niche.  [Click here](http://www.mmsend88.com/link.cfm?r=800557068&sid=23107374&m=2522339&u=ACS&j=13387927&s=http://www.youtube.com/watch?v=wJvJAt0RLMk) to view the video.  **Must-Read from C&EN: Drones Enlisted in Climate Change Research** A Global Hawk drone just finished an assignment that helps move these remotely piloted aircraft beyond their well-known role in fighting terrorism. Loaded with scientific instruments, it collected key data on global climate change from high above the tropical Pacific Ocean. For the full story, contact [newsroom@acs.org](mailto:newsroom@acs.org).   **ACS Pressroom Blog** The ACS Office of Public Affairs' [pressroom blog](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080160&m=2522339&u=ACS&j=13387927&s=https://communities.acs.org/community/science/science_news) highlights research from ACS’ more than 40 peer-reviewed journals and National Meetings.  **Bytesize Science Blog**  Educators and kids, put on your thinking caps: The American Chemical Society has [a blog for Bytesize Science](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080161&m=2522339&u=ACS&j=13387927&s=http://www.bytesizescience.com), a science podcast for kids of all ages.  **ACS Satellite Pressroom: Daily news blasts on Twitter** The satellite press room has become one of the most popular science news sites on Twitter. To get our news blasts and updates, create a free account at [https://twitter.com/signup](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080162&m=2522339&u=ACS&j=13387927&s=https://twitter.com/signup). Then visit [http://twitter.com/ACSpressroom](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080163&m=2522339&u=ACS&j=13387927&s=http://twitter.com/ACSpressroom) and click the ‘join’ button beneath the press room logo.   **C&EN on Twitter** Follow @cenmag at [http://twitter.com/cenmag](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080164&m=2522339&u=ACS&j=13387927&s=http://twitter.com/cenmag) for the latest news in chemistry and dispatches from C&EN's blog, CENtral Science, at [http://centralscience.org](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080165&m=2522339&u=ACS&j=13387927&s=http://centralscience.org).**ACS Press Releases**  [Press releases](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080166&m=2522339&u=ACS&j=13387927&s=http://portal.acs.org/portal/acs/corg/content?_nfpb=true&_pageLabel=PP_NEWSRELEASES&node_id=222&use_sec=false&sec_url_var=region1&__uuid=50b5ab93-801d-4d0d-868f-b9507ff9d709) on a variety of chemistry-related topics.  [To Top](#top)  http://images.magnetmail.net/images/clients/acs/goldline.gif  **ACS Videos**  The American Chemical Society encourages news organizations, museums, educational organizations and other web sites to embed links to these videos.  **Spellbound: How Kids Became Scientists**   |  | | --- | | http://images.magnetmail.net/images/clients/ACS/Spellbound3.jpg |   The road to a Nobel Prize began for one scientist in elementary school when his father placed a sign on his bedroom door proclaiming him to be a “doctor.” This is just one of the many experiences that helped launch the careers of scientists from diverse backgrounds who are featured in a new ACS video series called [Spellbound: How Kids Became Scientists](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080167&m=2522339&u=ACS&j=13387927&s=http://portal.acs.org/portal/acs/corg/content?_nfpb=true&_pageLabel=PP_ARTICLEMAIN&node_id=1355&content_id=CNBP_028033&use_sec=true&sec_url_var=region1&__uuid=e8e6ee76-0abe-4e78-84c4-3717c995c65e).  **Prized Science video series**   |  | | --- | | http://images.magnetmail.net/images/clients/ACS/2012PrizedScienceLanger.png |   Prized Science: How the Science Behind ACS Awards Impacts Your Life video series is new for 2012! The first episode features the research of Dr. Robert Langer, winner of the 2012 ACS Priestley Medal. He is a professor at the Massachusetts Institute of Technology. The Priestley Medal is the highest honor of the ACS, and it recognizes Langer’s pioneering work making body tissues in the lab by growing cells on special pieces of plastic. Langer’s team has used the approach to make skin for burn patients, for instance, with the goal of eventually making whole organs for transplantation. The second episode features Dr. Chad Mirkin, winner of the 2012 ACS Award for Creative Invention. His research has provided patients with faster diagnoses for influenza and other respiratory infections, and new tests that improve care for heart disease. More episodes will appear later in the year. The series is available at the [Prized Science](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080168&m=2522339&u=ACS&j=13387927&s=http://portal.acs.org/portal/acs/corg/content?_nfpb=true&_pageLabel=PP_ARTICLEMAIN&node_id=446&content_id=CTD1_018821&use_sec=true&sec_url_var=region1&__uuid=594bce97-0b05-4df7-b759-1a0f9156c5d8) website and on [DVD](mailto:m_bernstein@acs.org).  **The Periodic Table Table Featuring Theo Gray**   |  | | --- | | http://images.magnetmail.net/images/clients/ACS/VideoGrayTable_thumb(1).png |   Some people collect stamps. Wolfram Research co-founder and author Theo Gray collects elements. Step into his office, and you'll see a silicon disc engraved with Homer Simpson, a jar of mercury, uranium shells and hundreds of other chemical artifacts. But his real DIY masterpiece is the world's first ["periodic table table."](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080169&m=2522339&u=ACS&j=13387927&s=http://www.bytesizescience.com/index.cfm/2012/2/22/The-Periodic-Table-Table-Featuring-Theo-Gray) Within this masterfully constructed table-top lay samples of nearly every element known to man, minus the super-radioactive ones.  **Healing the voice: Synthetic vocal cords**   |  | | --- | | http://images.magnetmail.net/images/clients/ACS/VideoVocalCords_thumb(2).jpg |   [Synthetic vocal cords](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080170&m=2522339&u=ACS&j=13387927&s=http://www.bytesizescience.com/index.cfm/2012/5/22/Bytesize-Science-Healing-the-voice-with-synthetic-vocal-cords%20) may someday heal the voices of singers like Julie Andrews — whose legendary voice was permanently damaged in a 1997 operation. Filmed in the lab of 2012 ACS Priestley Medalist and MIT Institute Professor Robert Langer, our latest video explains how artificial polymer vocal cords may help repair damaged vocal tissue.   [The Chemistry of Beer](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080171&m=2522339&u=ACS&j=13387927&s=http://youtu.be/2xKpQ11CpVE)  [The Chemistry of Cheese](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080172&m=2522339&u=ACS&j=13387927&s=http://youtu.be/jMAlToEYHJM)  [Without a Scratch: Self-Healing Materials](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080173&m=2522339&u=ACS&j=13387927&s=http://youtu.be/Bx3WTSSD5f0)  [To Top](#top)  http://images.magnetmail.net/images/clients/ACS/goldline.gif  **ACS Podcasts**   |  |  | | --- | --- | | **Bytesize Science, a podcast for young listeners**  Bytesize Science is a science podcast for kids of all ages that entertains and educates, with new high-definition video podcasts and some episodes in Spanish. [Subscribe to Bytesize Science using iTunes](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080174&m=2522339&u=ACS&j=13387927&s=http://phobos.apple.com/WebObjects/MZStore.woa/wa/viewPodcast?id=266670954). No iTunes? No problem. [Listen to the latest episodes of Bytesize Science](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080175&m=2522339&u=ACS&j=13387927&s=http://feeds.feedburner.com/BytesizeScience) in your web browser. |  | | **Global Challenges/Chemistry Solutions**  This special series of ACS podcasts focuses on some of the 21st century’s most daunting challenges, and how chemists and other scientists are finding solutions. [Subscribe at iTunes](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080176&m=2522339&u=ACS&j=13387927&s=http://itunes.apple.com/WebObjects/MZStore.woa/wa/viewPodcast?id=283627508) or listen and access other resources at the ACS web site [www.acs.org/GlobalChallenges](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080177&m=2522339&u=ACS&j=13387927&s=http://www.acs.org/GlobalChallenges). | http://images.magnetmail.net/images/clients/ACS/GlobalChallenges(1).jpg | | **Science Elements: ACS science news podcast**  Science Elements is a podcast of PressPac content that makes cutting-edge scientific discoveries from ACS journals available to a broader public audience. [Subscribe to Science Elements using iTunes](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080178&m=2522339&u=ACS&j=13387927&s=http://itunes.apple.com/WebObjects/MZStore.woa/wa/viewPodcast?id=259674986). [Listen to the latest episodes of Science Elements in your web browser](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080179&m=2522339&u=ACS&j=13387927&s=http://feeds2.feedburner.com/acs/scienceelements). Science Elements is on Facebook — [check out the latest updates and information](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080180&m=2522339&u=ACS&j=13387927&s=http://www.facebook.com/pages/Science-Elements/135606971011). |  | |  |  | | **And Don’t Miss. . .**  **[General Chemistry Glossary](http://www.mmsend88.com/link.cfm?r=800557068&sid=23080181&m=2522339&u=ACS&j=13387927&s=http://antoine.frostburg.edu/chem/senese/101/glossary.shtml)** Simple definitions and explanations of chemistry terms. |  |   [To Top](#top)  http://images.magnetmail.net/images/clients/ACS/goldline.gif      The American Chemical Society is a nonprofit organization chartered by the U.S. Congress. With more than 163,000 members, ACS is the world’s largest scientific society and a global leader in providing access to chemistry-related research through its multiple databases, peer-reviewed journals and scientific conferences. Its main offices are in Washington, D.C., and Columbus, Ohio.  PressPac information is intended for your personal use in news gathering and reporting and should not be distributed to others. Anyone using advance PressPac information for stocks or securities dealing may be guilty of insider trading under the federal Securities Exchange Act of 1934. |