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| http://www.paramountcommunication.com/ACS/gold2011.jpgIn This Edition

|  |
| --- |
| [First detection of pregnancy protein in older people destined for Alzheimer’s disease](#1) [A breath-takingly simple test for human exposure to potentially toxic substances](#2)   [Potential treatment for “pink eye” epidemic](#3) [First opal-like crystals discovered in meteorite](#4) [Built like the Dreamliner: 2013 debut of carbon composite cars](#5) |

http://www.paramountcommunication.com/ACS/spacer2011.gif

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| [**Journalists’ Resources:**](#Resources)[Press releases, briefings, and more from ACS’ 242nd National Meeting](#registration) [Inside Science News Service](#InsideScience)[Must-reads from C&EN: Two-in-one medicines that both treat disease and monitor the effects](#mustread) [ACS Pressroom Blog](#pressroomblog) [Bytesize Science Blog](#bytesizeblog)[ACS Satellite Pressroom: Daily news blasts on Twitter](#twitter) [C&EN on Twitter](#CENTwitter)[ACS Press Releases](#releases) [International Year of Chemistry](#IYC)  |

http://www.paramountcommunication.com/ACS/spacer2011.gif

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| --- |
| [**ACS Videos:**](#Videos)[Spellbound: A video series on how kids became scientists](#Spellbound)[First Living, Dancing Periodic Table of the Elements](#Dance)[Prized Science: Taming the Red Tides](#PriScience)[A Day Without Chemistry](#daywithoutchemistry) [The Chemistry of Sourdough Bread](#sourdough)[The Chemistry of Fireworks](#fireworks)[The Chemistry of Grilling and Barbecuing](#barbecue) |

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| ARTICLE #1 **FOR IMMEDIATE RELEASE** **First detection of pregnancy protein in older people destined for Alzheimer’s disease**Journal of Proteome Research

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|  http://paracom.paramountcommunication.com/cimages/c733d3416ba774aed44d4c31568b9f9f/pp%20Alzheimer1%20092811.jpgFirst detection of pregnancy protein in older people destined for Alzheimer’s disease.Credit: iStock |

In an advance toward a much-needed early diagnostic test for Alzheimer’s disease (AD), scientists have discovered that older women destined to develop AD have high blood levels of a protein linked to pregnancy years before showing symptoms. Their report appears in ACS’ Journal of Proteome Research.Theo Luider and colleagues explain that more than 26 million people worldwide already have AD, and the numbers are rising with the graying of the population. Doctors can prescribe any of several drugs to slow the disease’s advance. But it is important to start treatment as early as possible. Unfortunately, however, no test exists to diagnose patients before obvious memory loss and other symptoms appear. Luider’s team decided to look for proteins in the blood that might be used in such a test.They looked for those proteins in blood samples of 86 people aged 60-90 who participated in a larger study of aged-related brain changes conducted in The Netherlands. Surprisingly, Luider’s group found that significant elevations in pregnancy zone protein (PZP) occurred in women an average of 4 years before diagnosis of AD. Scientists long have known that PZP levels rise during pregnancy, but this was the first link with AD. Luider further discovered the apparent source of the PZP in the brain of these women, who were not pregnant: PZP was being produced in senile plaques, degenerated areas of the brain associated with AD.

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|  http://paracom.paramountcommunication.com/cimages/c733d3416ba774aed44d4c31568b9f9f/pp%20JProteomeRes1%20092811.jpg[Click here for high resolution image](http://paracom.paramountcommunication.com/ct/6784780%3A9926842769%3Am%3A1%3A195942604%3A81E4277D47962BB7C39D8BA76F85DD71%3Ar) |

ARTICLE #1 **FOR IMMEDIATE RELEASE**“Serum Levels of Pregnancy Zone Protein Are Elevated in Presymptomatic Alzheimer’s Disease”[DOWNLOAD FULL TEXT ARTICLE](http://paracom.paramountcommunication.com/ct/6784781%3A9926842769%3Am%3A1%3A195942604%3A81E4277D47962BB7C39D8BA76F85DD71%3Ar) CONTACT: Theo M. Luider, Ph.D.Erasmus Medical CenterRotterdam, The NetherlandsPhone: +31-10-703-8069Fax: +31-10-704-4365Email: t.luider@erasmusmc.nl [To Top](#top)http://paracom.paramountcommunication.com/cimages/20c19ea793db663ac8d9cf19232d11c8/thingoldline.jpg |

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| ARTICLE #2 **FOR IMMEDIATE RELEASE** **A breath-takingly simple test for human exposure to potentially toxic substances**Environmental Science & Technology

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|  http://paracom.paramountcommunication.com/cimages/c733d3416ba774aed44d4c31568b9f9f/pp%20Breathing2%20092811.gifA breath-takingly simple test for human exposure to potentially toxic substances.Credit: Environmental Science & Technology |

The search for a rapid, non-invasive way to determine whether people have been exposed to potentially toxic substances in their workplaces, homes and elsewhere in the environment has led scientists to a technology that literally takes a person’s breath away. Their report identifying exhaled breath as an ideal indicator of such exposure appears in ACS’ Environmental Science & Technology.Andrea M. Dietrich, Masoud Agah, and their students Heather Vereb and Bassam Alfeeli explain that scientists have known since the late 1970s that exhaled breath contains traces of any potentially toxic substances that people may have inhaled. Research has shown that those amounts are an accurate reflection of the levels that exist in a person’s blood. Those advances have positioned exhaled breath as the ideal substance to use in rapid, non-invasive, simple testing for human exposure to potentially harmful substances in the air. Sampling breath is less invasive than drawing blood, more convenient than taking urine samples and “shows promise as an inexpensive method with a fast turnaround time,” they state.The article describes how advances in microelectronics have helped position breath analysis for more extensive use in the 21stCentury. Equipment for analyzing substances in human breath that once had to be housed in laboratories, for instance, have shrunk to hand-held size. The technology can detect minute amounts of substances in the breath and do so quickly — offering the promise of helping limit human exposure and improve health. The study was supported by the [Virginia Tech Institute for Critical Technology and Applied Sciences](http://paracom.paramountcommunication.com/ct/6784782%3A9926842769%3Am%3A1%3A195942604%3A81E4277D47962BB7C39D8BA76F85DD71%3Ar) and the [National Science Foundation](http://paracom.paramountcommunication.com/ct/6784783%3A9926842769%3Am%3A1%3A195942604%3A81E4277D47962BB7C39D8BA76F85DD71%3Ar).

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|  http://paracom.paramountcommunication.com/cimages/c733d3416ba774aed44d4c31568b9f9f/pp%20EST%202%20092811.jpg[Click here for high resolution image](http://paracom.paramountcommunication.com/ct/6784784%3A9926842769%3Am%3A1%3A195942604%3A81E4277D47962BB7C39D8BA76F85DD71%3Ar) |

ARTICLE #2 **FOR IMMEDIATE RELEASE**“The Possibilities Will Take Your Breath Away: Breath Analysis for Assessing Environmental Exposure”[DOWNLOAD FULL TEXT ARTICLE](http://paracom.paramountcommunication.com/ct/6784785%3A9926842769%3Am%3A1%3A195942604%3A81E4277D47962BB7C39D8BA76F85DD71%3Ar) CONTACT: Andrea M. Dietrich, Ph.D.Virginia TechBlacksburg, Va.Phone: 540-231-5773Fax: 540-231-7916Email: andread@vt.edu  [To Top](#top)http://paracom.paramountcommunication.com/cimages/20c19ea793db663ac8d9cf19232d11c8/thingoldline.jpg |

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| ARTICLE #3 **FOR IMMEDIATE RELEASE** **Potential treatment for “pink eye” epidemic**Journal of Medicinal Chemistry

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|  http://paracom.paramountcommunication.com/cimages/c733d3416ba774aed44d4c31568b9f9f/pp%20PinkEye3%20092811.jpgPotential treatment for “pink eye” epidemic.Credit: iStock |

Scientists are reporting discovery of a potential new drug for epidemic keratoconjunctivitis (EKC) — sometimes called “pink eye” — a highly infectious eye disease that may occur in 15 million to 20 million people annually in the United States alone. Their report describing an innovative new “molecular wipe” that sweeps up viruses responsible for EKC appears in ACS’s Journal of Medicinal Chemistry.Ulf Ellervik and colleagues note that there is no approved treatment for EKC, which is caused by viruses from the same family responsible for the common cold. EKC affects the cornea, the clear, dome-shaped tissue that forms the outer layer of the eye. It causes redness, pain, tearing, and may reduce visions for months. “Patients are usually recommended to stay home from work or school, resulting in substantial economic losses,” the scientists write.They describe discovery of a potential new drug that sweeps up the viruses responsible for EKC, preventing the viruses from binding to and infecting the cornea. The drug removes viruses already in the eye and new viruses that are forming. In doing so, it would relieve symptoms, speed up healing (potentially avoiding impaired vision, and reduce and the risk of infecting the patient’s other eye or spreading the infection within families, schools and work places, the scientists suggested.The authors acknowledge funding from [Adenovir Pharma AB](http://paracom.paramountcommunication.com/ct/6784786%3A9926842769%3Am%3A1%3A195942604%3A81E4277D47962BB7C39D8BA76F85DD71%3Ar), [The Swedish Research Council](http://paracom.paramountcommunication.com/ct/6784787%3A9926842769%3Am%3A1%3A195942604%3A81E4277D47962BB7C39D8BA76F85DD71%3Ar), [The Crafoord Foundation](http://paracom.paramountcommunication.com/ct/6784788%3A9926842769%3Am%3A1%3A195942604%3A81E4277D47962BB7C39D8BA76F85DD71%3Ar), and [The Royal Physiographic Society in Lund](http://paracom.paramountcommunication.com/ct/6784789%3A9926842769%3Am%3A1%3A195942604%3A81E4277D47962BB7C39D8BA76F85DD71%3Ar).

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|  http://paracom.paramountcommunication.com/cimages/c733d3416ba774aed44d4c31568b9f9f/pp%20JMedicinalChem3%20092811.jpg[Click here for high resolution image](http://paracom.paramountcommunication.com/ct/6784790%3A9926842769%3Am%3A1%3A195942604%3A81E4277D47962BB7C39D8BA76F85DD71%3Ar) |

ARTICLE #3 **FOR IMMEDIATE RELEASE**“Molecular wipes: application to epidemic keratoconjunctivitis”[DOWNLOAD FULL TEXT ARTICLE](http://paracom.paramountcommunication.com/ct/6784791%3A9926842769%3Am%3A1%3A195942604%3A81E4277D47962BB7C39D8BA76F85DD71%3Ar) CONTACT: Ulf Ellervik, Ph.D.Center for Analysis and Synthesis, Chemical CenterLund UniversityLund, SwedenPhone: +46-46-2228220Fax: +46-46-2228209E-mail: ulf.ellervik@organic.lu.se [To Top](#top)http://paracom.paramountcommunication.com/cimages/20c19ea793db663ac8d9cf19232d11c8/thingoldline.jpg |

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| ARTICLE #4 **FOR IMMEDIATE RELEASE: A PressPac Instant Replay\*** **First opal-like crystals discovered in meteorite: A PressPac Instant Replay\***Journal of the American Chemical Society

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| http://paracom.paramountcommunication.com/cimages/c733d3416ba774aed44d4c31568b9f9f/pp%20Recycled4%20092811.jpgThe Tagish Lake meteorite, which fell to Earth in Canada in 2000, contains unusual opal-like crystals.Credit: NASA |

Scientists have found opal-like crystals in the Tagish Lake meteorite, which fell to Earth in Canada in 2000. This is the first extraterrestrial discovery of these unusual crystals, which may have formed in the primordial cloud of dust that produced the sun and planets of our solar system 4.6 billion years ago, according to a report in the Journal of the American Chemical Society.Katsuo Tsukamoto and colleagues say that colloidal crystals such as opals, which form as an orderly array of particles, are of great interest to for their potential use in new electronics and optical devices. Surprisingly, the crystals in the meteorite are composed of magnetite, which scientists thought could not assemble into such a crystal because magnetic attractions might pack the atoms together too tightly. “We believe that, if synthesized, magnetite colloidal crystals have promising potential as a novel functional material,” the article notes.The formation of colloidal crystals in the meteorite implies that several conditions must have existed when they formed. “First, a certain amount of solution water must have been present in the meteorite to disperse the colloidal particles,” the report explains. “The solution water must have been confined in small voids, in which colloidal crystallization takes place. These conditions, along with evidence from similar meteorites, suggest that the crystals may have formed 4.6 billion years ago.”The authors acknowledge funding from the [Japan Society for the Promotion of Science](http://paracom.paramountcommunication.com/ct/6784792%3A9926842769%3Am%3A1%3A195942604%3A81E4277D47962BB7C39D8BA76F85DD71%3Ar), the [Tohoku University Global COE Program](http://paracom.paramountcommunication.com/ct/6784793%3A9926842769%3Am%3A1%3A195942604%3A81E4277D47962BB7C39D8BA76F85DD71%3Ar), and the [Center for Interdisciplinary Research Tohoku University](http://paracom.paramountcommunication.com/ct/6784794%3A9926842769%3Am%3A1%3A195942604%3A81E4277D47962BB7C39D8BA76F85DD71%3Ar).

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ARTICLE #4 **FOR IMMEDIATE RELEASE**“Magnetite 3D Colloidal Crystals Formed in the Early Solar System 4.6 Billion Years Ago”[DOWNLOAD FULL TEXT ARTICLE](http://paracom.paramountcommunication.com/ct/6784796%3A9926842769%3Am%3A1%3A195942604%3A81E4277D47962BB7C39D8BA76F85DD71%3Ar) CONTACT:Katsuo Tsukamoto, Ph.D.Department of Earth and Planetary Materials ScienceTohoku UniversitySendai, JapanPhone: + 81-22-795-6674E-mail: ktsuka@m.tohoku.ac.jp **\* A previous PressPac item that you may have missed**[To Top](#top)http://paracom.paramountcommunication.com/cimages/20c19ea793db663ac8d9cf19232d11c8/thingoldline.jpg |

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| ARTICLE #5 **FOR IMMEDIATE RELEASE** **Built like the Dreamliner: 2013 debut of carbon composite cars**Chemical & Engineering News

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|  http://paracom.paramountcommunication.com/cimages/c733d3416ba774aed44d4c31568b9f9f/pp%20CEN5%20092811.jpg[Click here for high resolution image](http://paracom.paramountcommunication.com/ct/6784797%3A9926842769%3Am%3A1%3A195942604%3A81E4277D47962BB7C39D8BA76F85DD71%3Ar)  |

The revolutionary material used to build the Boeing 787 Dreamliner, the Airbus A350 super-jumbo jet, and the military’s stealth jet fighter planes is coming down to Earth in a new generation of energy-saving automobiles expected to hit the roads during the next few years. That ultra-strong carbon fiber composite material — 50% lighter than steel and 30% lighter than aluminum — is the topic of the cover story in the current edition of Chemical & Engineering News, ACS’s weekly newsmagazine.In the story, C&EN Senior Correspondent Marc S. Reisch describes how carmakers such as BMW, Mercedes, and Audi are turning to carbon fiber composites to reduce the weight and improve the mileage of their next-generation of electric and hybrid vehicles. Carbon fiber composites are plastics containing fine strands of carbon that are spun into fibers and woven into a fabric. Manufacturers lay the fabric into a mold with the shape of the final part, and soak it with epoxy or other resin to produce parts for aircraft and other products.Despite concerns about the high cost of carbon fiber composites, automakers are embracing this energy-saving material, even though it may increase the cost of small electric or hybrid cars by $5,000 or more, the article notes. It describes major auto manufacturers’ plans for marketing vehicles made with carbon fiber composites, and research underway to reduce the cost of the material. ARTICLE #5 **FOR IMMEDIATE RELEASE**“Getting the Steel Out”This story is available at:[http://pubs.acs.org/cen/coverstory/89/8939cover.html](http://paracom.paramountcommunication.com/ct/6784798%3A9926842769%3Am%3A1%3A195942604%3A81E4277D47962BB7C39D8BA76F85DD71%3Ar)  [To Top](#top)http://paracom.paramountcommunication.com/cimages/20c19ea793db663ac8d9cf19232d11c8/thingoldline.jpg |

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| **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://paracom.paramountcommunication.com/cimages/c733d3416ba774aed44d4c31568b9f9f/0914spellboundPP.jpgThe 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://paracom.paramountcommunication.com/ct/6784810%3A9926842769%3Am%3A1%3A195942604%3A81E4277D47962BB7C39D8BA76F85DD71%3Ar). **First Living, Dancing Periodic Table of the Elements**http://paracom.paramountcommunication.com/cimages/c733d3416ba774aed44d4c31568b9f9f/0914chemdancePP.jpgThat famous chart displaying the chemical elements that make up everything on Earth — a fixture on the walls of classrooms and labs — literally comes alive in this new video from the American Chemical Society (ACS). [Chemists Can Dance!](http://paracom.paramountcommunication.com/ct/6784811%3A9926842769%3Am%3A1%3A195942604%3A81E4277D47962BB7C39D8BA76F85DD71%3Ar) features scores of chemists wearing symbols representing the elements, kicking up their heels to the tune of an original rap song. It's all part of ACS's celebration of the International Year of Chemistry. Check out the fun and share the link.**Prized Science: Taming the Red Tides**The latest episode in the American Chemical Society’s new video series, Prized Science: How the Science Behind ACS Awards Impacts Your Life, focuses on the quest http://paracom.paramountcommunication.com/cimages/c733d3416ba774aed44d4c31568b9f9f/0914prizsciPP.jpgto cure a terrible form of food poisoning caused by population explosions of algae that stain the water red and produce a potent toxin. Entitled “Taming the Red Tides,” the high-definition video focuses on Michael Crimmins, Ph.D., winner of the 2010 Ernest Guenther Award in the Chemistry of Natural Products. The series is available at the [Prized Science](http://paracom.paramountcommunication.com/ct/6784812%3A9926842769%3Am%3A1%3A195942604%3A81E4277D47962BB7C39D8BA76F85DD71%3Ar) website, [YouTube](http://paracom.paramountcommunication.com/ct/6784813%3A9926842769%3Am%3A1%3A195942604%3A81E4277D47962BB7C39D8BA76F85DD71%3Ar), [iTunes](http://paracom.paramountcommunication.com/ct/6784814%3A9926842769%3Am%3A1%3A195942604%3A81E4277D47962BB7C39D8BA76F85DD71%3Ar) and on DVD. **A Day Without Chemistry** Imagine a day without cars, electric lights, TV, telephones, safe food, and water, medicine, clothing, your house, and thousands of other familiar objects that make up modern society. Do it, and you are imagining a day in a world without chemistry. ACS explores that thought-provoking premise in a new high-definition video released as part of the celebration of the International Year of Chemistry. [A Day Without Chemistry](http://paracom.paramountcommunication.com/ct/6784815%3A9926842769%3Am%3A1%3A195942604%3A81E4277D47962BB7C39D8BA76F85DD71%3Ar) follows a person who sees more and more everyday necessities and conveniences disappear before his widening eyes.[The Chemistry of Sourdough Bread](http://paracom.paramountcommunication.com/ct/6784816%3A9926842769%3Am%3A1%3A195942604%3A81E4277D47962BB7C39D8BA76F85DD71%3Ar)[The Chemistry of Fireworks](http://paracom.paramountcommunication.com/ct/6784817%3A9926842769%3Am%3A1%3A195942604%3A81E4277D47962BB7C39D8BA76F85DD71%3Ar)[The Chemistry of Grilling and Barbecuing](http://paracom.paramountcommunication.com/ct/6784818%3A9926842769%3Am%3A1%3A195942604%3A81E4277D47962BB7C39D8BA76F85DD71%3Ar)[To Top](#top)http://paracom.paramountcommunication.com/cimages/20c19ea793db663ac8d9cf19232d11c8/goldline.jpg |

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| **ACS Podcasts**

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| **Science Connections from CAS**[CAS - Science Connections](http://paracom.paramountcommunication.com/ct/6784830%3A9926842769%3Am%3A1%3A195942604%3A81E4277D47962BB7C39D8BA76F85DD71%3Ar) is a series of articles that showcases the value of CAS databases in light of important general-interest science and technology news. Topics range from fruit flies to Nobel Prize winners, with the CAS - Science Connections series pointing to [CAS databases](http://paracom.paramountcommunication.com/ct/6784831%3A9926842769%3Am%3A1%3A195942604%3A81E4277D47962BB7C39D8BA76F85DD71%3Ar) for a more complete understanding of the latest news. |   |

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