NEWS OF THE WEEK

9 REPLACING HYDROXYLS
Deoxygenation procedure allows alcohol reductions without using toxic organotin reagents.

10 MERCK LAWSUIT
Firm will appeal jury's award of damages in Vioxx case that has triggered more suits.

10 TRAIN DISDAIN
Nevada senators challenge DOE's plans to ship nuclear waste to Yucca Mountain by rail.

11 REPROGRAMMED CELLS
Creation of stem cell hybrid demonstrates the potential to return adult cells to an embryonic state.

11 PRICE FIX
The EC investigates several firms for fixing prices of methyl methacrylate in Europe.

12 BUYING EYETECH
OSI Pharmaceuticals will buy Eyetech for $935 million, but some analysts question the deal.

12 SENSOR ARRAY
An array of dyes can be used to fingerprint beverages, thus becoming a tool for authentication and quality control.

COVER STORY

INORGANIC NANOTUBES
Researchers see intriguing physical properties and a range of potential applications. PAGE 30

COVER: Researchers are using single-crystal GaN nanotubes, with an outer diameter of about 150 nm, to regulate ion transport. Courtesy of Peidong Yang

BUSINESS

13 FINDING SALT
Chemistry helps archaeologists in China identify salt production at a site dating to 1000 B.C.

13 METHANE RECYCLING
Bacterium works with peat moss to oxidize methane to carbon dioxide for photosynthesis.

14 CONCENTRATES
16 BIOPHARMACEUTICALS
Powering a wave of new drug technologies is a resurgence of medicinal chemistry.

20 BIRD FLU DRUG
If an avian flu pandemic breaks out, Roche may not be able to meet the demand for its antiviral Tamiflu.

GOVERNMENT & POLICY

23 CONCENTRATES
24 SCIENTIFIC MISCONDUCT
Rules are now in place, but new issues have arisen that threaten the scientific community.

SCIENCE & TECHNOLOGY

27 CONCENTRATES
28 KEITH HODGSON
C&EN talks with the chemist who helped turn X-ray absorption spectroscopy into one of the most useful tools for studying organometallic structures.

INSIGHTS

Chemistry faces the challenge of broadly adapting new technologies to help achieve global sustainable development.

QUOTE OF THE WEEK

"Chemists are basically risk-takers. Biologists are risk averse—they tend to take baby steps. It's the nature of the business."

VIJAY B. SAMANT, CEO, Vical