

ences between electrodes made from copper and those made from tin. The branches of the tin deposits are longer and straighter than those of copper. The copper foams also contain nanometer-

sized grains and pores not seen in the tin structures. Liu said the differences may be related to the fact that during deposition of the copper electrodes, gas bubbles are produced from both the deposited

copper and the substrate. In the tin electrodes, only the substrate produces bubbles. The researchers will publish their work in an upcoming issue of *Advanced Functional Materials*.

News of MRS Members/Materials Researchers

S. Banerjee has been appointed director of the Bhabha Atomic Research Centre (BARC), Mumbai, India, beginning his tenure in April.

Chad Mirkin, the George B. Rathmann Professor of Chemistry and Director of the Institute for Nanotechnology at Northwestern University, has been selected to receive the **National Institutes of Health (NIH) Director's Pioneer Award** in recognition of his efforts in pioneering the development of nanoscale chemical and biological sensors. Mirkin is also the founder of Nanosphere, Inc. in Northbrook, Ill. and Nanolnk, Inc. in Chicago, Ill.

Baldev Raj has been appointed direc-

tor of the Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam, India, beginning his tenure in May.

Matthew Tirrell, Dean of the College of Engineering at the University of California, Santa Barbara, has been appointed as a Venture Partner at NGEN Partners LLC (Santa Barbara, Calif.), a venture capital fund with a focus on the materials field.

Chris G. Van de Walle has joined the Materials Department at the University of California, Santa Barbara as professor of computational materials. He will also be associated with the Materials Research Laboratory and the California Nano-Systems Institute.

Jennifer West, the Isabel C. Cameron Professor of Bioengineering and professor of chemical engineering at Rice University, has been selected to receive the **2004 Annunzio Award** from the Christopher Columbus Fellowship Foundation in recognition of her work in biomaterials and tissue engineering.

Wolfgang Windl of The Ohio State University and **Gerd Duscher** of North Carolina State University have been awarded the **2004 Nano Technology Industrial Impact Award** from the Nano Science and Technology Institute for their discovery of atomically sharp "perfect" interfaces in Si:Ge/SiO₂ devices.

News of MRS Corporate Affiliates/Materials Institutions

The **Aachen University of Technology, AIXTRON AG** (Aachen, Germany), and **Philips Lighting** (Aachen-Rothe Erde, Germany) have signed a collaboration agreement aimed at the joint development of novel large-area white organic light-emitting diodes (OLED) (www.rwth-aachen.de; www.aixtron.com; www.lighting.philips.com).

The **Ceramics and Composites Laboratory** has been launched within the Department of Engineering Materials at Sheffield University, United Kingdom, to develop new materials. The laboratory has been guaranteed funding of £6 million over the next five years from the Engineering and Physical Research Council (EPSRC) (www.shef.ac.uk/materials/research/centres/ccl.html).

The **Institute for Lasers, Photonics and Biophotonics** at the State University of New York at Buffalo has received a \$925,000 grant from the John R. Oishei Foundation for research and development in nanomedicine and nanobiotechnology (www.photonics.buffalo.edu).

Matsushita Electric Industrial Co. Ltd. (Osaka, Japan) has joined the **International SEMATECH Manufacturing Initiative (ISMI)**, becoming the newest member of the global consortium of leading semiconductor manufacturers engaged in cooperative precompetitive work to improve semi-

conductor manufacturing productivity in the current and future manufacturing facilities of its member companies. ISMI is a wholly-owned subsidiary of SEMATECH, Inc. (Austin, Texas). Matsushita joins AMD, Hewlett-Packard, IBM, Infineon, Intel, Freescale, Philips, Texas Instruments, and TSMC (www.panasonic.co.jp/global/www.ismi.sematech.org).

NanoDynamics (Buffalo, N.Y.) has signed a joint venture agreement with the New Zealand-based technology company, **Nano Cluster Devices Ltd. (NCD)** to commercialize NCD's technology process for self-assembly of nanowires in production of semiconductors and electronic components (www.nanodynamics.com; www.nanoclusterdevices.com).

Nanoscale Science and Engineering Centers have been announced by the National Science Foundation for the following universities: University of California—Berkeley, Center of Integrated Nanomechanical Systems (\$11.9 million), director: Alex Zettl; Northeastern University, Center for High Rate Nanomanufacturing (\$12.4 million), director: Ahmed Busnaina; Ohio State University, Center for Affordable Nanoengineering of Polymer Biomedical Devices (\$12.9 million), director: L. James Lee; University of Pennsylvania, Center on Molecular Function at the Nano/Bio Interface (\$11.4 million),

director: Dawn Bonnell; Stanford University, Center for Probing the Nanoscale (\$7.5 million), director: Kathryn Moler; University of Wisconsin—Madison, Center for Templated Synthesis and Assembly at the Nanoscale (\$13.4 million), director: Paul Nealey (www.nsf.gov).

The **Northwestern Institute on Complex Systems (NICO)** was established at Northwestern University (Evanston, Ill.) to stimulate path-breaking research of complex systems across traditional boundaries. NICO comprises a distinguished and diverse group of faculty from all areas of the university, including engineering, business, natural sciences, education, medicine, law, and the social sciences. Mark A. Ratner, Morrison Professor of Chemistry at Northwestern, is the group leader of the NICO-affiliated center on materials self-assembly processes (www.northwestern.edu/research/nico). □

Correction

In the article, "Novel Materials and Applications of Electronic Noses and Tongues," published in the October 2004 issue of *MRS Bulletin*, the publication listed as Reference 26 was incorrect. The correct reference is: N.A. Rakow and K.S. Suslick, "A Colorimetric Sensor Array for Odour Visualization," *Nature* **406** (2000) p. 710.

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