

New Members and Foreign Associates of the National Academy of Sciences

The US National Academy of Sciences recently elected 84 new members and 21 foreign associates in recognition of their distinguished and continuing achievements in original research. We congratulate the new members featured here, as well as **John F. Hartwig** (University of California, Berkeley),^[1a] **François Diederich** (ETH Zürich),^[1b] and **Vivian Wing Wah Yam** (University of Hong Kong),^[1c] who were recently featured in this section.

Joseph M. DeSimone (University of North Carolina, Chapel Hill) studied at Ursinus College, Pennsylvania, and was awarded his PhD (supervised by James E. McGrath) from Virginia Polytechnic Institute and State University in 1990. In the same year, he joined the University of North Carolina, Chapel Hill, where he is now Chancellor's Eminent Professor of Chemistry, and also William R. Kenan, Jr. Distinguished Professor of Chemical Engineering at North Carolina State University, Raleigh. DeSimone's research is focused on applications of PRINT (particle replication in non-wetting templates) technology in nanomedicine, and he has published a Review on this topic in *Small*.^[2a] He has also reported on patterning inorganic oxide structures in *Advanced Materials*.^[2b] DeSimone was on the International Advisory Board of *ChemSusChem* from 2007–2011, and is on the Editorial Advisory Board of *Small*.

John B. Goodenough (The University of Texas, Austin) studied at Yale University and carried out his PhD from 1950–1952 with Clarence Zener at the University of Chicago. From 1952–1976, he was Group Leader and Research Scientist the MIT Lincoln Laboratory, and from 1976–1986, he was Professor of Chemistry and Head of the Inorganic Chemistry Laboratory at the University of Oxford. In 1986, he moved to the University of Texas, Austin, where he is Virginia H. Cockrell Centennial Chair in Engineering. Goodenough's research involves the properties of the d electrons in transition-metal oxides, and electrodes and electrolytes for chemical cells, including Li-ion batteries and solid-oxide fuel cells. He recently discussed the major developments in solid-state chemistry over the last 60 years in *ZAAC (Journal of Inorganic and General Chemistry)*.^[3]

John T. Groves (Princeton University) studied at MIT and was awarded his PhD from Columbia University in 1969 for work supervised by Ronald Breslow. In 1969, he joined the University of Michigan, and in 1985, he moved to the University of Princeton, where he is currently Hugh Stott Taylor Chair of Chemistry. Groves' research interests include the mechanisms of metalloproteins and the design of biomimetic catalysts. He has reported in *Angewandte Chemie* on alkane hydroxylation by

the diiron oxygenase AlkB,^[4a] and on the use of a manganese porphyrin as a dismutation catalyst.^[4b]

Chevreul Medal for Uwe T. Bornscheuer

The Société Française pour l'Etude des Lipides (SFEL) awards the Chevreul Medal annually to two scientists (one from France and one from abroad) in recognition of their outstanding contributions to lipid science. Uwe Bornscheuer (University of Greifswald, Germany) was awarded the 2012 medal for his achievements in the application of the fields of enzyme engineering and enzyme technology (biocatalysis) to lipid modification, and Florence Lacoste (ITERG, Bordeaux) was recognized for her work on lipid analysis. Bornscheuer studied at the University of Hannover, where he completed his PhD (supervised by Karl Schügerl and Thomas Scheper) in 1993. From 1993–1994, he was a JSPS Postdoctoral Fellow with Tsuneo Yamane at the University of Nagoya, and from 1994–1999, he carried out his Habilitation at the University of Stuttgart under the mentorship of Rolf D. Schmid. He has been professor at the Institute of Biochemistry at the University of Greifswald since 1999. His current research interests are focused on the protein engineering of enzymes, in particular for the synthesis of chiral compounds and for lipid modification. He has reported in *Angewandte Chemie* on selective biocatalysts,^[5a] and creation of a highly selective lipase by protein engineering.^[5b] Bornscheuer is one of the Editorial Board Chairmen of *ChemCatChem* and is Editor-in-Chief of the *European Journal of Lipid Science and Technology*.

- [1] a) *Angew. Chem.* **2011**, *123*, 10194; *Angew. Chem. Int. Ed.* **2011**, *50*, 10018; b) *Angew. Chem.* **2012**, 5892; *Angew. Chem. Int. Ed.* **2012**, *51*, 5792; c) *Angew. Chem.* **2011**, *123*, 7357; *Angew. Chem. Int. Ed.* **2011**, *50*, 7219.
- [2] a) J. Wang, J. D. Byrne, M. E. Napier, J. M. DeSimone, *Small* **2011**, *7*, 1919; b) M. J. Hampton, S. S. Williams, Z. Zhou, J. Nunes, D.-H. Ko, J. L. Templeton, E. T. Samulski, J. M. DeSimone, *Adv. Mater.* **2008**, *20*, 2667.
- [3] J. B. Goodenough, *Z. Anorg. Allg. Chem.* **2012**, DOI: 10.1002/zaac.201100474.
- [4] a) R. N. Austin, K. Luddy, K. Erickson, M. Pender-Cudlip, E. Bertrand, D. Deng, R. S. Buzdygon, J. B. van Beilen, J. T. Groves, *Angew. Chem.* **2008**, *120*, 5310; *Angew. Chem. Int. Ed.* **2008**, *47*, 5232; b) T. P. Umile, J. T. Groves, *Angew. Chem.* **2011**, *123*, 721; *Angew. Chem. Int. Ed.* **2011**, *50*, 695.
- [5] a) E. Fernández-Álvaro, R. Snajdrova, H. Jochens, T. Davids, D. Böttcher, U. T. Bornscheuer, *Angew. Chem.* **2011**, *123*, 8742; *Angew. Chem. Int. Ed.* **2011**, *50*, 8584; b) H. B. Brundiek, A. S. Evitt, R. Kourist, U. T. Bornscheuer, *Angew. Chem.* **2012**, *124*, 425; *Angew. Chem. Int. Ed.* **2012**, *51*, 412.

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Honored ...



J. M. DeSimone



J. B. Goodenough



J. T. Groves



U. T. Bornscheuer