

Editorial

Hugh D. Burrows* and Richard M. Hartshorn*

The 2016 Nobel Prize in Chemistry

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Pure and Applied Chemistry warmly congratulates Jean-Pierre Sauvage (University of Strasbourg, France), Sir J. Fraser Stoddart (Northwestern University, Evanston, IL, USA), and Bernard (Ben) L. Feringa (University of Groningen, the Netherlands) on their award of the 2016 Nobel Prize in Chemistry. The citation from the Royal Swedish Academy of Sciences states that the award is “for the design and synthesis of molecular machines”. Their work encompasses a broad spectrum of Chemistry, from elegant synthetic studies of catenanes, rotaxanes and other formerly considered exotic molecules, through coordination chemistry, and electron transfer reactions, to molecular switches and rotors driven by light and other external sources. They have all participated actively in IUPAC endorsed meetings and conference series, including the IUPAC World Congress in Chemistry, IUPAC International Conferences on Organic Synthesis (ICOS), Physical Organic Chemistry (ICPOC), and Coordination Chemistry (ICCC), and IUPAC International Symposia on Macrocyclic Chemistry (ISMC), Organometallic Chemistry Directed Towards Organic Synthesis (OMCOS), Novel Aromatic Compounds (ISNA), Carbohydrate Chemistry (ICS), the Chemistry of Natural Products (ISNP), and Photochemistry. *Pure Appl. Chem.* publishes collections of papers based upon authoritative lectures presented at such IUPAC endorsed events, in addition to IUPAC Recommendations, and Technical Reports. We are very pleased to highlight the following publications from these three Nobel Laureates that have been published in *Pure and Applied Chemistry* as a result of their involvement in these conferences.

Publications by Jean-Pierre Sauvage

C. Dietrich-Buchecker, M. C. Jimenez-Molero, V. Sartor and J.-P. Sauvage, *Rotaxanes and catenanes as prototypes of molecular machines and motors*, *Pure Appl. Chem.* **75**, 1383–1393 (2003); DOI: 10.1351/pac200375101383.

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***Corresponding authors:** Hugh D. Burrows, Scientific Editor, *Pure and Applied Chemistry*, Department of Chemistry, University of Coimbra, 3004-535 Coimbra, Portugal, e-mail: burrows@ci.uc.pt; and Richard M. Hartshorn, Secretary General, International Union of Pure and Applied Chemistry, Chair, Pure and Applied Chemistry, Editorial Advisory Board and Associate Professor Department of Chemistry, University of Canterbury, Christchurch, New Zealand, e-mail: richard.hartshorn@canterbury.ac.nz

J.-C. Chambron, C. Dietrich-Buchecker, C. Hemmert, A.-K. Khemiss, D. Mitchell, J.-P. Sauvage, J. Weiss, *Interlacing molecular threads on transition metals*, *Pure Appl. Chem.* **62**, 1027–1034 (1990); DOI: 10.1351/pac199062061027.

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J. Fraser Stoddart, *From a Meccano set to nano meccano*, *Pure Appl. Chem.* **77**, 1089–1106 (2005); DOI: 10.1351/pac200577071089.

P. T. Glink, J. Fraser Stoddart, *Concept transfer from the life sciences into materials science*, *Pure Appl. Chem.* **70**, 419–424 (1998); DOI: 10.1351/pac199870020419.

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S. J. Langford, J. Fraser Stoddart, *Self-assembly in chemical systems*, *Pure Appl. Chem.* **68**, 1255–1260 (1996); DOI: 10.1351/pac199668061255.

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Publications by Ben L. Feringa

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