discover technologies for greener drug synthesis; or for the introduction of more environmentally friendly means of synthesising nano-fertilisers. A very interesting idea was proposed by the above-mentioned scientist from Kenya, Wycliffe Chisutia Wanyonyi, which is to use chicken feathers for the production of cosmetics, such as hair-care products, and even the production of fertilisers.

In her address to conference participants, IUPAC President Natalia Tarasova said, "Science today plays a leading role in addressing the challenges facing humanity, which is why it is especially important to support talented young people. We also believe in scientific diplomacy, in the notion that science knows no boundaries, since scientists from all around the world speak the same language. That is why it is important to develop support for young scientists at the international level."

Russian National Commission for UNESCO Member and PhosAgro CEO Andrey Guryev said, "The further progress of humankind while minimising our impact on the environment at the global level is possible only through the joint efforts of science, international organisations, and business. I hope that, in the future, this project will serve as an example of successful cooperation between science and industry in the formation of a new ethics of progress that envisages a great degree of responsibility for the prosperity of future generations on our planet."

Professor John Corish of the Trinity College Dublin School of Chemistry noted that, "There were no weak projects this year, and submissions were received from all around the world: from Asia, the Pacific, Latin America and the Caribbean, Western and Eastern Europe, North America, Africa and the Arab world. Making a selection from among the projects was very difficult, but I can say that all of this year's winners are very good. I have no doubt that some of these technologies will eventually be used everywhere and will change our world for the better."

Grant recipient Ignacio Carrera from Uruguay said, "Green Chemistry for Life is an excellent programme. It is very important, especially for young scientists, to receive funding and support for their research."

Grant recipient Alsu Akhmetshina, from the R. E. Alekseev Nizhgorod State Technical University in Russia, observed that, "The Green Chemistry for Life project represents a big step towards waste-free production, towards responsible and sustainable industry and agriculture."

Call for Applications Open

The call for the 4th round of grant applications is now open until **28 February 2017**.

See more details at www.unesco.org/new/en/natural-sciences/science-technology/basic-sciences/chemistry/green-chemistry-for-life/how-to-apply/
or
iupac.org/green-chemistry-life-grants-awarded-leading-young-scientists/

Hanwha Total IUPAC Young Scientist Award 2016

The 2016 Hanwha-Total IUPAC Young Scientist Award has been awarded to Moon Jeong Park and Brent Sumerlin.

The Hanwha-Total IUPAC Young Scientist Award (formerly Samsung-Total Petrochemicals—IUPAC Young Scientist Award) is dedicated to outstanding young scientists (younger than 40 years old) and is sponsored by a grant from the aforementioned company. The prize was first awarded during Macro2004, held in Paris, and is granted biennially at each IUPAC World Polymer Congress (WPC). Nominations are made by the chairs of WPC symposia, and the winner is then selected by a committee of the IUPAC Polymer Division. This year, the award was presented at Macro2016 in Istanbul over 17–21 July. There are two 2016 awardees (ex aequo), namely:

Prof. Moon Jeong Park, Pohang University of Science and Technology, Pohang, South Korea, and
Prof. Brent Sumerlin, University of Florida, Gainesville, USA.

Prof. Moon Jeong Park was born in 1977 in South Korea and studied Chemical Engineering at the Seoul National University (supervisor Prof. Kookheon Char). She spent 2006-2009 as post-doctoral scholar in the Department of Chemical Engineering, University of California—Berkeley (supervisor Prof. Nitash P. Balsara) before she started her independent career in the year 2009 at Pohang University of Science and Technology (POSTEC), Pohang, South Korea, where she has been an Associate Professor since 2013. Prof. Park's research focuses on understanding morphology, ion transport, and light-emitting properties of ionic polymers on the molecular scale, starting from fundamental thermodynamics of ion-conducting block copolymers and extending to micro-phase separation and ion conductivity

in hard and soft matter. In particular, she has significantly contributed to the following areas:

- Ionic-liquid containing polymers
- Design of self-assembled polymer electrolytes
- Organic-inorganic nanohybrides for enhanced ion/charge transport
- Chemical sensors based on ionic polymers

Prof. Park has received a number of prestigious awards, for example:

- the Best Paper Award, IUPAC World Polymer Congress, Paris (2004)
- the Young Scientist Award Korea–Japan–China Young Researcher's Workshop (2010)
- the Asia Excellence Award Young Scientists, Soc. Polym. Sci. Japan (2011)
- the Chong-Am Science Fellowship, POSCO (formerly Pohang Iron and Steel Company), TJ Park Foundation (2011)
- the Young Scientist Award, John Wiley & Sons and the Korean Polym. Soc. (2013)

Prof. Park has published over 61 scientific papers, holds 24 domestic and 14 international patents, and is a member of several editorial boards of prominent scientific journals. There are presently over 1546 citations of her work, for which the h-index is 26.

Prof. Brent Sumerlin was born in the USA in 1976. He studied Polymer Science and Engineering at North Carolina State University (Raleigh) and the University of Southern Mississippi (Hattiesburg), where he obtained his PhD (Polymer Science and Engineering) in the year 2003, supervised by Prof. Charles L. McCormick. He was post-doctoral fellow (supervisor Prof. Kris Matyjaszewski) and Visiting Assistant Professor at Carnegie Mellon University (Pittsburg) until 2005, when he joined Southern Methodist University (Dallas) as Assistant Professor, as Harold Jeskey Trustee Assistant Professor in Chemistry, and finally as Harold Jeskey Trustee Associate Professor in Chemistry during the years 2005-2012. In 2012 he moved to the University of Florida (Gainesville) as Associate Professor in Chemistry, where he became full Professor of Chemistry in 2015. Prof. Sumerlin's research focuses on:

- Reversible-covalent polymeric materials, *e.g.*, self-healing polymers without internal reservoirs of healing agent
- Stimuli-responsive polymers, *e.g.*, block copolymers with responsive nanoscale assemblies, useful in, for example, in feedback-controlled drug delivery
- "Smart" polymer-protein conjugates, *e.g.*, ones stable under conditions that prevent protein denaturation.

Among other honors Prof. Sumerlin has received:

- the NSF Career Award
- the Alfred P. Sloan Research Fellowship
- the JPS Innovation Award
- the Biomacromolecules/Macromolecules Young Inventor Award.

He is Kavli Member of the National Academy of Science of the USA, and a Fellow of the Royal Society. Prof. Sumerlin is author/co-author of five books on reversible-deactivation radical polymerization and member of numerous editorial boards of prominent scientific journals. He has more than 200 scientific papers with more than 7000 citations and his h-index is 45.

The IUPAC Polymer Division is especially grateful to Prof. Jung-Il Jin for fostering the relationship with Hanwha Total, to Prof. Michael Hess for chairing the selection committee, and to Prof. Yusuf Yagci for so actively promoting this award at Macro2016.

www.iupac.org/hanwha-total-iupac-young-scientist-award-2016

DSM Materials Sciences Award 2016 Goes to Professor Steven P. Armes

Royal DSM, a global science-based company active in health, nutrition, and materials, announced that Professor Steven P. Armes (54), Professor of Polymer and Colloid Chemistry at the University of Sheffield, UK, has been awarded the DSM Materials Science Award 2016. The Award recognizes his exceptional contribution to the advancement of macromolecular architecture, which is applied in many everyday situations, including the development of dirt-repellant coatings and lubricants that reduce wear and fuel consumption.

An international jury, chaired by Dr. Marcel Wubbolts, Chief Technology Officer of DSM, selected Professor Armes from among the candidates proposed in a public call for nominations. Professor Armes received the award, which carries a cash prize of EUR 50,000, from Dr. Wubbolts at a special ceremony at the University of Sheffield on Wednesday, 20 July 2016.

"I'm delighted to accept this Award on behalf of the past and current members of my research group, whose hard work and enthusiasm keep me motivated," said Prof. Armes. "I'd also like to thank Professor Tony Ryan