

Project Place

shared examples of improvements he drove in Nigeria, including improved waste disposal, safety training and behavior, and emergency response. Several STP Fellows are now collaborating on initiatives to develop Regional Safety Training Centers to expand the reach of this program. The first Regional Safety Training was organized by Professor Fabian Benzo, an STP Fellow from Uruguay. It was held in Spanish at the University of Montevideo in October 2016 (see www.iupac.org/project/2016-021-1-022). A proposal is now being developed to stage a regional STP in India in 2017 and work is starting on regional training in Africa. Efforts like these promise to drive improvements in EH&S practices, policies, and behaviors, and should reduce the number and severity of incidents.

COCI has a list of qualified applicants who are seeking this training. Applicants for the program should be trained scientific or chemistry professionals who are working in industrial, academic, or government institutions. They should have already achieved a position that enables them to drive changes in their organization, so that the benefits of the training can best be realized. A letter of support from their home institution is required. COCI handles the vetting of the applications to ensure

that requirements are met. Anyone interested in hosting STP trainees is encouraged to contact COCI.

COCI and the STP Fellows appreciate the support of host companies, trainers, and sponsors of the Safety Training Program. Their dedication and efforts are making a difference and improving environmental, health, and safety practices. Together, we are driving behavioral and cultural changes to achieve the program's vision: zero accidents, zero injuries, and zero excuses.

References

1. Safety Training Program - Call for Host Companies, *Chem Int*, Sep 2006, p. 21
2. Safety Training Fellows Visit Japan, South Africa, and USA in 2002 and 2003, by Mark C. Cesa, *Chem Int*, Nov 2003, p. 12
3. IUPAC/UNESCO/UNIDO Safety Program Trains Two Scientists in United States, by Mark C. Cesa *Chem Int*, March 2001

For more information and comments, contact COCI chair Bernard West <bernard.west@sympatico.ca>
www.iupac.org/body/022

Books and publications hot off the press.
See also www.iupac.org/what-we-do

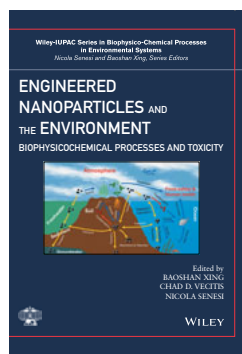
Bookworm

Engineered Nanoparticles and the Environment: Biophysicochemical Processes and Toxicity

Baoshan Xing, Chad D. Vecitis, and Nicola Senesi (Eds)

Wiley 2016, ISBN: 978-1-119-27582-4

Engineered nanoparticles (ENP, 1-100 nm) are found in an increasing number of consumer and food products (such as shampoos, paints, chewing gums) and applications (e.g., biomedical, electronic, industrial, and environmental) due to the rapid development and implementation of nanotechnology. This technology is one of the most promising new research areas of the 21st century and will have dramatic impacts across all scientific fields. Due to their anticipated high-volume production and widespread use, ENP will be unavoidably introduced into the environment during the intentional application, accidental release, and end of life-cycle disposal of ENP-enabled products. For example, ENP have already been reported to enter the environment



as a result of ENP-containing paint. Recent toxicological data raises concern over the environmental and health impact of ENP, which will largely be determined by their fate, distribution, and bioavailability. However, there is also a great deal of potential benefit to society and the world in the discovery, synthesis, and application of nanoma-

terials. There is a need to systematically collect, integrate, and disseminate the latest information, data, and knowledge on all the aspects related to ENP and the environment (e.g., detection, toxicity, transformation, modeling, application). This interdisciplinary book uses a systematic approach, bringing together world-renowned international scientists on the subject matter in order to integrate the latest discoveries and developments in, as well as the future prospects for,

research of ENP in the environment and ecosystems. We envision this book will be useful for the sustainable development of nanotechnology.

There are 22 chapters in this book, divided into three parts. Part I has 5 chapters, focusing on the synthesis, application, detection, and characterization of engineered nanoparticles. Part II has 9 chapters, focusing on the environmental release, fate, distribution, and modeling of engineered nanoparticles. Part III has 8 chapters, focusing on the toxicity and risk assessment of engineered nanoparticles under different scenarios. The combination of these 22 chapters provides a comprehensive overview of the characterization, application, environmental processing, modeling, toxicity, and risk assessment of engineered nanoparticles.

This book is a critical and useful reference book for scientists, engineers, professionals, policy makers, and government regulators who are interested in the biophysico-chemical processes and applications of engineered nanomaterials. This book is also an important addition to the existing literature on the subject matter. Further, this book can be used by undergraduate and graduate students, as well as instructors and professors in environmental, aquatic, soil, agricultural, nano, marine, atmospheric, geological, ecological, biological, and chemical science and engineering. The book chapter authors are recognized as leading authorities in their field of research and each chapter was rigorously peer reviewed, similar to refereed journal articles.

This book is Volume IV of the Wiley-IUPAC series in Biophysico-Chemical Processes in Environmental Systems, and is the outcome of IUPAC project 2011-019-1-600, sponsored by Division VI-Chemistry and the Environment. It was published by Wiley in October 2016 with a total of 484+XIII pages. The book is available in both electronic (ISBN: 9781119275824) and print (ISBN: 9781119275848) versions.

www.wiley.com/WileyCDA/WileyTitle/productCd-1119275822.html

<https://iupac.org/project/2011-019-1-600>

Compendium of Terminology and Nomenclature of Properties in Clinical Laboratory Sciences

Georges Férard, René Dybkaer, and Xavier Fuentes-Arderiu

RSC 2017, Print ISBN: 978-1-78262-107-2

There has been significant expansion and development in clinical laboratory sciences, particularly in metrological concepts, definitions, and terms, since the previous edition of this —also known as the IUPAC Silver book— was published in 1995. It is of prime importance to standardize laboratory reports for the reliable exchange of patient examination data without loss of meaning or accuracy. New disciplines have appeared and the inter-

relationships between different disciplines within clinical laboratory sciences demand a common structure and language for data exchange, in the laboratory and with the clinicians, necessitating additional coverage in this book. These new sections are based upon recommendations published by various national, regional, and international bodies, especially IUPAC and IFCC. This book groups and updates the recommendations and will be appropriate for laboratory scientists, medical professionals, and students in this area.

This second edition of the Compendium of Terminology and Nomenclature of Properties in Clinical Laboratory Sciences was discussed in an IFCC and IUPAC joint Working Group: René Dybkaer (Frederiksberg); Georges Férard (Strasbourg, Chair); Françoise Pontet (Paris, co-Chair); Xavier Fuentes-Arderiu (Barcelona); Dongchon Kang (Kyushu); Gilbert Hill (Toronto); Clement Mc Donald (Indianapolis); and Anders J. Thor (Stockholm).

<https://iupac.org/project/2007-033-3-700>

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