

ONLINE POSTGRADUATE SUMMER SCHOOL ON GREEN CHEMISTRY

6-10 July 2020

Venice, Italy

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## Lectures and teachers 2020



### Natalia Tarasova

Director, Institute of Chemistry and Problems of Sustainable Development, Mendeleev University of Chemical Technology of Russia; Corresponding Member of the Russian Academy of Sciences; Honorary Fellow, Royal Society of Chemistry; Doctor Honoris Causa, Bowling Green State University (USA); Chairholder of UNESCO Chair in Green Chemistry for Sustainable Development, Mendeleev University of Chemical Technology of Russia – Russia.

### Lecture title: Green Chemistry within Planetary Boundaries

#### Profile

#### Education:

1972 MS in radiation chemistry, D. I. Mendeleev University

1976 Candidate of Science (PhD) in radiation chemistry, D. I. Mendeleev University

1983 MS in applied mathematics, Moscow Institute of Electronic Machinery Building.

1994 Doctor of Science in inorganic chemistry, D. I. Mendeleev University

#### Professional Positions:

1972-1983 Research Scientist, D. I. Mendeleev University

1979-1980 Visiting Scientist, University of Bordeaux-I

1983-1995 Associate Professor, Department of Industrial Ecology, D. I. Mendeleev University

1989 Visiting Professor, Dartmouth College (USA)

1992 Visiting Professor, University of York (Great Britain)

1995 - 2012 Professor of Chemistry, D. I. Mendeleev University, Chair, Department for the Problems of Sustainable Development

1996 Visiting Professor, Bowling Green State University (USA)

1998 – 2015 Faculty member, International Program for Management of Sustainability (the Netherlands)

2000- Director, Institute of Chemistry and Problems of Sustainable Development, D.I. Mendeleev University,

2012- Chairholder of UNESCO Chair in Green Chemistry for Sustainable Development

#### Main Research Interests:

Prof. Tarasova is a well-known scientist in the field of radiation chemistry and phosphorus chemistry. She is developing new methods of synthesis of polymeric forms of phosphorus and sulfur (modified red phosphorus, phosphorus-sulfur co-polymers, polymeric phosphorus doped with metals, carbon, etc.) under high-energy irradiation. She conducts research related to green chemistry, sustainable development, risk assessment and management.

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### Editorial Positions

Professor Tarasova is a member of the editorial boards of *Russian Chemical Reviews*, *Journal of Industrial Safety*, *Green Chemistry*, *Ecology of Industrial Enterprises*, *Pure and Applied Chemistry*. She was an Honorary Editor of *The Encyclopedia of Life Support Systems (EOLSS)*, UNESCO.

### IUPAC Activities:

Professor Tarasova has been involved in various IUPAC activities since 1996. First, she was a national representative to CTC, and later was the titular member of CTC and CCE, Vice-President, President and past- President (2014-2019). She is the titular member of the IUPAC Interdivisional Committee on Green Chemistry and Sustainable Development. Professor Tarasova is the Chair of the National Committee of Russian Chemists for the IUPAC. She served as the co-chair of the InterUnions' Management Committee of the International Year of the Periodic Table of Chemical Elements (2018-2019).

### ISC Activities

Professor Tarasova is the member of the Governing Board of the International Science Council (2019-2021)

### Dissemination of Knowledge

Professor Tarasova has managed the translation into Russian, the publication, and the dissemination of: *Chemistry in the Community* (ASC textbook for schools); *Salter's Advanced Chemistry* (York University advanced chemistry course textbook for schools, in 4 volumes); *Citizen's Guide to Promoting Toxic Waste Reduction* (INFORM, Lauren Kenworth, USA); Risk Assistant (Hampshire Research Institute Project, USA); seven English language books related to systems thinking.

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[green.chemistry@unive.it](mailto:green.chemistry@unive.it)