



# XI Международный форум технологического развития **ТЕХНОПРОМ-2024**

Senior vs junior researchers/students in the UK and other parts of the Western Europe

27-30 августа 2024 год

г. Новосибирск, МВК «Новосибирск-Экспоцентр»

[FORUMTECHNOPROM.RF](http://FORUMTECHNOPROM.RF)

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## ***Background***

1972 Department of Physics, St Petersburg State University

1977 PhD in Plasma Physics

1972-1982 Institute of Physics, St Peterburg State University

1988-1992 Department of Physics, Sheffield University, UK

1992-1996 Fluent Europe, UK

1996-present Department of Engineering, University of Brighton, UK

# Traditions which should not be copied in Russia



## Traditions which should not be copied in Russia

### 1. Focus is on average students

PhD students are not allowed to complete their PhDs in less than 2.5 years

Financial support is not linked with academic performance

Undergraduate students are not involved in research programs

## Traditions which should not be copied in Russia

### 2. Students' feedback affects the curriculum

Mathematical contents is reduced for Engineering students, based on their feedback

## Traditions which should not be copied in Russia

3. Lecturers' qualifications and skills are not important for delivering modules

## Traditions which should not be copied in Russia

4. There are many factors, not related to research of teaching skills, may affect the selection of lecturers (e.g. sex, race)

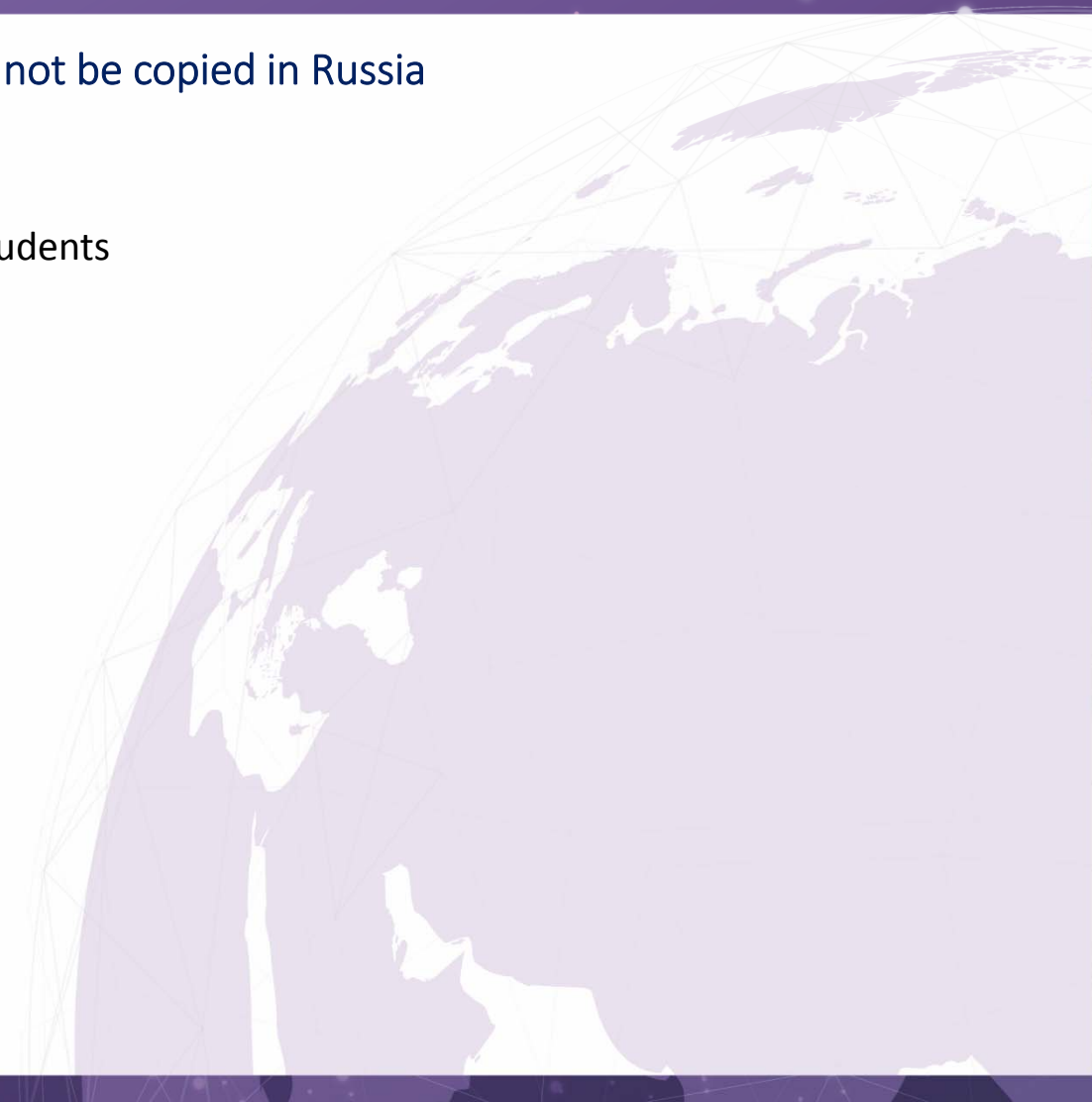


## Traditions which should not be copied in Russia

5. Lecturers' and researchers' salaries are not directly affected by their performance

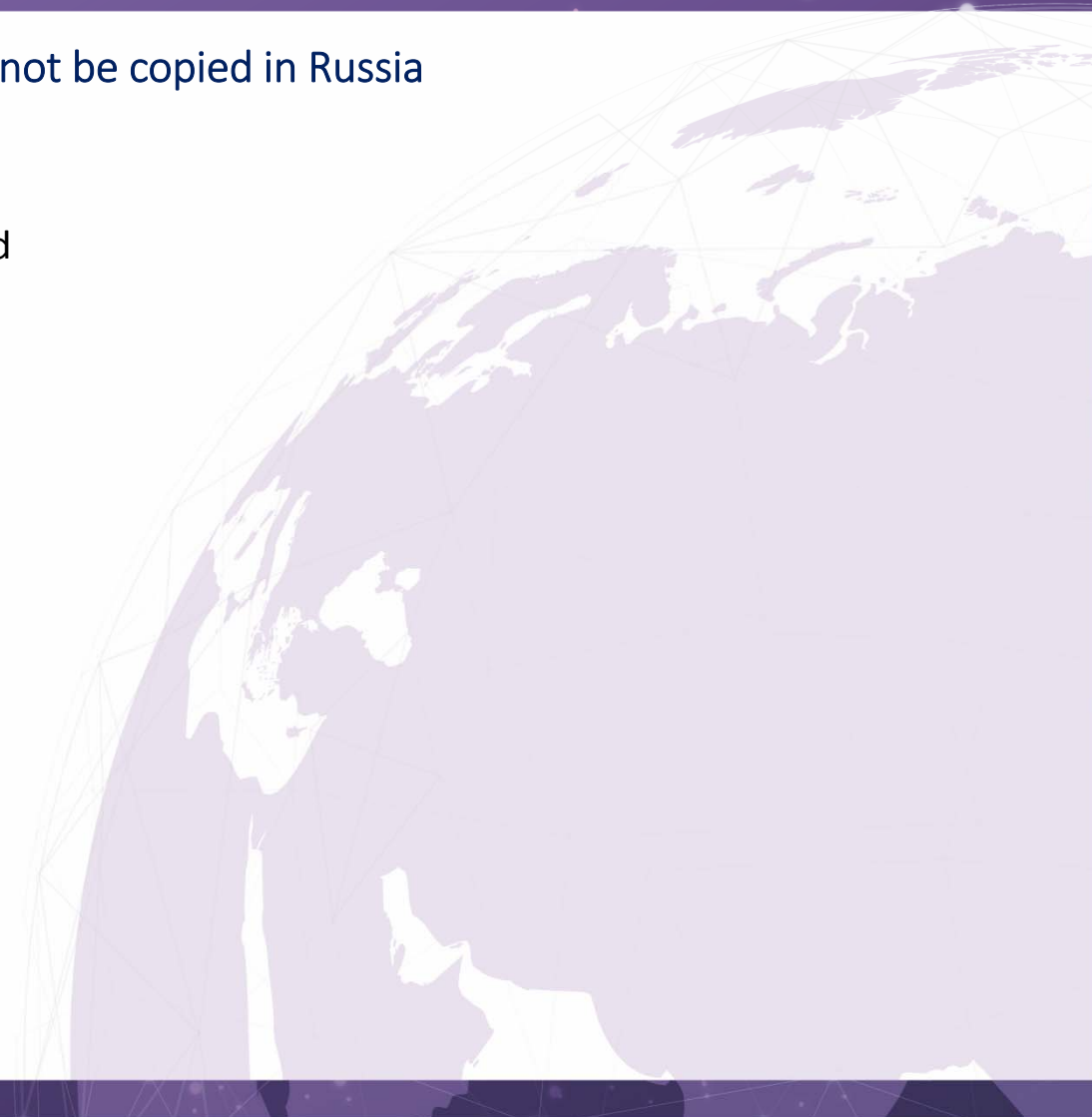
## Traditions which should not be copied in Russia

### 6. Written examinations for undergraduate students



## Traditions which should not be copied in Russia

7. Not public vivas for PhD students in England



# Traditions which could be copied in Russia



## Traditions which could be copied in Russia

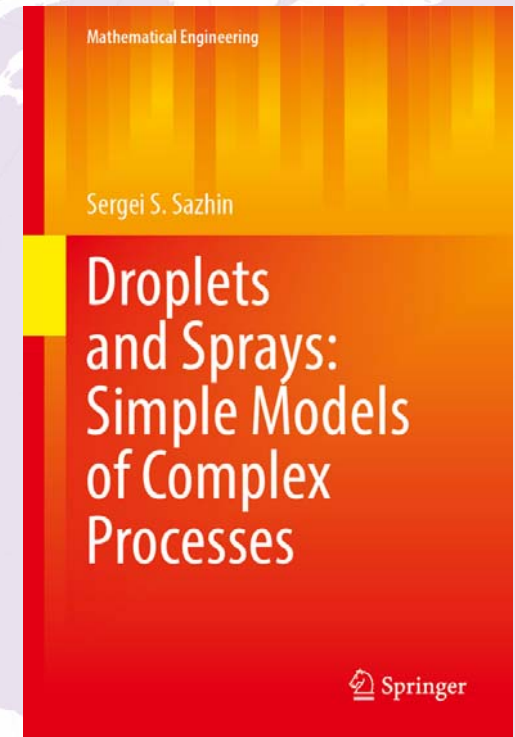
1. 'Russian roulette' club for undergraduate students

## Traditions which could be copied in Russia

### 2. Lectures for PhD students delivered by external experts

For many years (since about 2015) I delivered lectures for PhD students and young researchers at the Universities of Stuttgart and Bergamo focused on modelling of droplets and sprays

Published in 2022



## Traditions which could be copied in Russia

### 3. Advanced courses



### **International Advanced Course in Liquid Interfaces, Drops and Sprays**

**10<sup>th</sup> Edition**

**DROPS AND SPRAYS**

**FOR BEGINNERS AND ADVANCED LEARNERS**

Pavia, Italy, 10<sup>th</sup> - 14<sup>th</sup> June 2024

International Course Directors  
**A. Amirfazli, V. Bertola, M. Marengo**

**COURSE DESCRIPTION**



## Traditions which could be copied in Russia

### LECTURERS

	<p><b>Prof. Alidad Amirfazli</b> Before joining the York University as the founding Chair of the Department of Mechanical Engineering, Alidad Amirfazli held the Canada Research Chair in Surface Engineering at the University of Alberta, Canada. Amirfazli has produced exciting results in wetting behaviour of surfaces, drop adhesion and shedding, understanding and application of superhydrophobic coatings. He has more than 200 scientific contributions, many in prestigious peer reviewed journals; he is the Editor for the Advances in Colloid and Interface Science. Dr. Amirfazli has been the recipient of the Martha Cook Piper Research prize, Killam Annual Professorship, and Petro-Canada Young Innovator Award. He also served in the board of Professional Engineers of Alberta, and been a consultant with various companies in USA, Europe, and Canada.</p>
	<p><b>Prof. Volfango Bertola</b> Joined the University of Liverpool in 2011, after holding a Lectureship at the University of Edinburgh (2004-2011) and a Marie Curie Fellowship at the Ecole Normale Supérieure in Paris (2001-2004). In 2009-10 he was Visiting Professor and Lagrange Fellow at Polytechnic of Turin (Italy). He has more than 100 scientific publications in the areas of soft matter, multiphase flows, and thermodynamics, including several contributions on non-Newtonian drops and on the dynamic wetting of complex fluids. He has been the recipient of a Royal Academy of Engineering Global Research Award (2009) and the UIT Young Scientist Prize (2001).</p>
	<p><b>Prof. Marco Marengo</b> Graduated in Physics at the University of Turin cum laude and completed his Ph.D. studies at the Polytechnic of Milan, Italy, and University of Erlangen, Germany, with a thesis about "Drop Impingement on Liquid Film". He has been the Director of the Advanced Engineering Centre at the University of Brighton and he is now Full Professor of Thermal Physics at the University of Pavia. He is the Vice-President of the European Association of Liquid Atomization and Spray Systems, and he serves as Associate Editor of Int. J. Multiphase Flows and other journals. He published more than 250 scientific papers, many in peer-reviewed journals about liquid sprays, drop impact, heat pipes, building physics. He has received more than 30 invitations for plenary lectures and department seminars.</p>
	<p><b>Prof. Sergei Sazhin</b> Professor Sergei Sazhin received his PhD (candidate of physical and mathematical sciences) in St Petersburg State University (Russia) in 1977. Currently, he is working as Professor of Thermal Physics at the University of Brighton (UK). He has authored more than 600 publications, including 5 monographs and more than 270 papers in international refereed journals. His current ISI Web of Science (Scopus, Google scholar) citation index is 40 (45, 54). He is a Fellow of the Institute of Physics (UK) since 1994. Leadership in Research Excellence Awardee at the University of Brighton in 2017. Member of the Scientific Council of the International Centre for Heat and Mass Transfer (ICHMT) since 2018.</p>





**Thank you for your attention**



