



## HOPE Annual Forum 2016

### Physics Teaching in Europe and HOPE in Perspective

7-10 September 2016, Constanța, Romania

#### Wednesday 7<sup>th</sup> September

#### Malibu Hotel, Constanța

17.00 Registration

**18.30 Welcome**

18.30 **Cornel Panait**, Rector of Constanta Maritime University, Romania

**Ștefan Antohe**, Dean of the Faculty of Physics, University of Bucharest, Romania

**Roxana Zus**, Organizing Committee, University of Bucharest, Romania

19.00 End of the day's programme

19.30 Reception and dinner, Hotel Malibu



**Thursday 8<sup>th</sup> September**

**Constanța Maritime University – Nautical Base**

No. 2 Cuarțului Street – Room BN011

- 09.00      **Introductory remarks**  
**Nadine Witkowski**, Pierre and Marie Curie University, France
- 09.15      Session 1: Physics School Teachers Education I**  
Chair: Nadine Witkowski, Pierre and Marie Curie University, France
- 09:15      **Objectives of Working Group 4 of HOPE**  
**Aleš Mohorič**, University of Ljubljana, Slovenia
- 09.30      **Guest Speaker**  
**Hans Fischer**, University of Duisburg/Essen, Germany  
Professional knowledge of science teachers and consequences for teacher education
- 10.30      Coffee Break – lawn
- 11.00      Session 2: Contributed papers on themes of WG4**  
Chair: Aleš Mohorič, University of Ljubljana, Slovenia
- Ovidiu Florin Căltun**, Alexandru Ioan Cuza University of Iasi, Romania  
Schuler Labors - Poles of Excellence in Continuous Professional Development of Science Teachers
- 11.20      **Víctor López**, Autonomous University of Barcelona, Spain  
DIATIC: In-service physics teachers training through a community of practice about the design of teaching materials
- 11.40      **Joan Borg Marks**, University of Malta, Malta  
Can teachers and teaching change for the better?
- 12.00      Lunch – lawn
- 14.00      Session 3: Physics School Teachers Education II**  
Chair: Marisa Michelini, University of Udine, Italy
- 14.00      **Guest Speaker**  
**Laurence Viennot**, Université Denis Diderot, France  
Critical Reasoning as a Component of Teacher Formation
- 15.00      **Round Table 1: Teacher needs in the different contexts**  
Chair: Marisa Michelini, University of Udine, Italy  
Participants :  
**Marie-Blanche Mauhourat**, General Inspector, Ministry of Education, France  
**Yaron Lehavi**, Weitzman Institute of Science, Israel  
**Silvano Sgrignoli**, Italian Association for Physics Teaching, Bergamo, Italy  
**Sorin Trocaru**, General Inspector, Ministry of National Education and Scientific Research, Romania  
**Andreea Popescu-Cruglic, Stefan Ghinescu**, Students- prospective teachers, University of Bucharest, Romania



Lifelong  
Learning  
Programme

## **16.00 Session 4: Poster session**

- 16.00 **Poster Session** + Coffee Break – Room BN013
- 17.00 End of the day's programme
- 18.00 Grill Dinner, Constanta Maritime University – Nautical Base

## **Friday 9<sup>th</sup> September**

### **Constanța Maritime University – Nautical Base**

No. 2 Cuartului Street – room BN011

## **09.00 Session 5: Results of HOPE**

Chair: Nadine Witkowski, University Pierre and Marie Curie, France

- 09:00 **Investigations into Teacher Education: report from Working Group 4 of HOPE**  
**Aleš Mohorič**, University of Ljubljana, Slovenia
- 10:00 **Inspiring Young People to Study Physics: report from Working Group 1 of HOPE**  
**Marek Trippenbach**, University of Warsaw, Poland
- 11.00 Coffee Break – lawn
- 11.30 **New Competences for Physics Graduates - Fostering Innovation and Entrepreneurship: report from Working Group 2 of HOPE**  
**Hay Geurts**, Radboud University, The Netherlands
- 12.00 **Improvements in Physics Teaching - Meeting Future Global Challenges in Physics Higher Education: report from Working Group 3 of HOPE**  
**Eamonn Cunningham**, Dublin City University, Ireland
- 12.30 Lunch – lawn

## **14.00 Session 6: HOPE in perspective I**

Chair: Ivan Ruddock, University of Strathclyde, United Kingdom

- 14.00 **Guest Speaker**  
**Pratibha Jolly**, University of Delhi, India  
Global Challenges in Physics Education
- Contributed Papers by HOPE partners**
- 15.00 **Olivia Levrini**, University of Bologna, Italy  
What inspires young people to study physics?
- 15.20 **Edouard Kierlik**, Pierre and Marie Curie University, France  
How to promote problem-solving on a large scale?
- 15.40 **Philip Mörke**, University of Konstanz, Germany



- From science to teaching - a project to increase the number of qualified physics teachers
- 16.00 Coffee Break – lawn
- 16.30 **The Future:** Networking and brainstorming opportunity for attendees to describe their ideas for collaboration and seek potential collaborators
- 17.30 End of the day's programme
- 19.30 Conference dinner, Le Premier Constanta  
No. 1 Aristide Karatzali Street

## Saturday 10<sup>th</sup> September

### Constanta Maritime University – Nautical Base

No. 2 Cuarțului Street – room BN011

#### 09.00 **Session 7: Reflection**

Chair: Chair Ivan Ruddock, University of Strathclyde, United Kingdom

- 09:00 **Round Table 2: SWOT (Strengths, Weaknesses, Opportunities, Threats) analysis of Higher Education in Physics within a European context in the light of the activities and results of HOPE**

Chair: Ivan Ruddock, University of Strathclyde, United Kingdom

Participants :

**Olivia Levrini**, University of Bologna, Italy

**Gareth Jones**, Imperial College London, United Kingdom

**Sune Pettersson**, Umeå University, Sweden

**Maria José de Almeida**, University of Coimbra, Portugal

**Alexis Prel**, Pierre and Marie Curie University, France

**Pratibha Jolly**, University of Delhi, India

- 10.30 Coffee Break – lawn

#### 11.00 **Session 8: Conclusions**

- 11:00 **Perspectives, Conclusions, Summary and Thanks**  
**Nadine Witkowski**, Pierre and Marie Curie University, France

- 11.30 **End of the Forum**

- 12:00 Lunch – lawn

- 14:00 Optional excursion (details during the Forum)