



WINTER SCHOOL IN COMMUNICATION SKILLS AND OUTREACH

organized by the National Museum of Science and Technology Leonardo da Vinci in collaboration with **POLIMI**

19-22 January 2016 MUST – spazio Tinkering Zone

TUESDAY 19 JANUARY

09.00 – 09.10 | Welcome | FIORENZO GALLI MNST GENERAL DIRECTOR

09.10 – 10.00 | Course introduction | SARA CALCAGNINI

Aims, programme and participants presentation.

10.00 – 11.00 | Case study: Researchers communicating in informal context | GIORGIO BARDIZZA

11.00 – 11.30 | Break

11.30 – 12.30 | Why communicate Research? | SARA CALCAGNINI

The science communicator's point of view.

12.30 – 13.30 | Lunch

13.30 – 15.00 | Putting in practice: Experimental activities in museums | ENRICO MIOTTO & ERICA LOCATELLI

Case study: i.lab Materials.

15.00 – 15.30 | Break

15.30 – 17.00 | Learning, Science Communication and Public Engagement | MARIA XANTHOUDAKI

Theory and practice related to pedagogies and methodologies.

WEDNESDAY 20 JANUARY

09.00 – 10.00 | Exercises on the communication of scientific topics | ENRICO MIOTTO

Exercising on how to start a conversation.

10.00 – 11.30 | Why communicate Research? | DARREN MC GARRY

Science Communication - bridging the knowledge and awareness gap.

11.30 – 12.00 | Break

12.00 – 13.30 | Science-Society and discussion games | SARA CALCAGNINI

Do we need a dialogue between science and society?

13.30 – 14.30 | Lunch

14.30 – 15.30 | Responsible Research and Innovation | *MARIA XANTHOUDAKI*

A change of paradigm?

15.30 – 16.00 | Break

16.00 – 17.30 | Putting in practice: Testing different education methods | *ENRICO MIOTTO & ERICA LOCATELLI*

Case study: activities with spins.

THURSDAY 21 JANUARY

09.00 – 11.00 | Public engagement and Formats | *BEN JOHNSON*

What is Public Engagement and an overview of popular PE activities.

11.00 – 11.30 | Break

11.30 – 12.30 | Defining your personal message for different audiences | *BEN JOHNSON*

Tailor the communication to the audience you want to reach.

12.30 – 13.30 | Lunch

13.30 – 15.00 | Facilitation skills | *BEN JOHNSON*

Strategies, tools and exercises for developing communication skills.

15.00 – 15.30 | Break

15.30 – 16.30 | Facilitation skills continues | *BEN JOHNSON*

16.30 – 17.00 | Wrap up and evaluation | *SARA CALCAGNINI*

Debrief of the workshop.

FRIDAY 22 JANUARY

09.00 – 10.30 | Intro presentation of the Photonics Explorer | *NATHALIE DEBAES and TINE DE PAW*

Some aspects of the presentation : What is the Photonics explorer , Overview of the modules of the Photonics Explorer, Working with the Photonics explorer to give workshops for teachers and to give workshops to secondary-school students.

10.30 – 11.00 | Break

11.00 – 12.00 | Hands-on experiments PART 1 : Diffraction

12.00 – 13.00 | Lunch

13.00 – 14.30 | Hands-on experiments PART2 : Light spectrum – Polarization

14.30 – 14.45 | Break

14.45 – 16.00 | Hands-on experiments PART3 : Light signals – colours – lenses

16.00 – 16.30 | Conclusions

Round table how the PhD students will implement action plan related to the photonics explorer .

16.30 – 17.00 | Discussion

17.00 – 18.00 | Joint Journal Club

“Generation and characterization of intense attosecond pulses”

TEACHING STAFF

NATIONAL MUSEUM OF SCIENCE AND TECHNOLOGY LEONARDO DA VINCI

SARA CALCAGNINI, Head of Science and Citizens Programmes

ERICA LOCATELLI, Programme Developer, Materials and Chemistry i.labs

ENRICO MIOTTO, Head of Training and Research

MARIA XANTHOUDAKI, Director of Education and of International Relations

GIORGIO BARDIZZA | Researcher in Nano To Touch Project and Scientific Officer at the European Commission's Joint Research Centre, Institute for Energy and Transport (IET) Renewables and Energy Efficiency Unit – SOLAREC action

DARREN MC GARRY JRC | Head of the Public Relations and Communication team at the European Commission's Joint Research Centre, Institute for Energy & Transport

BEN JOHNSON | Science Communication Trainers, Graphic Science

EYEST | **NATALIE DEBAES** and **TINE DE PAUW** work at the Brussels Photonics Team at VUB, Vrije Universiteit Brussel, on outreach activities and EU-funded projects. They work on the realization of several outreach activities on photonics at the university. Nathalie is founding member and CEO of EYESTvzw. Tine helps in the Photonics Explorer programme and in the organisation of a large variety of workshops for trainers, teachers and students. They both are actively involved in the European projects Gophoton!, Light2015 and MEDEA.

