Open Schools and Local Societies:
Leveraging the local environment to innovative learning and creativity

26 – 31 August 2018

The main focus of the training will be to facilitate the transformation of schools to innovative ecosystems, open to local communities and natural environment.

The course will give participants the opportunity to learn how to inspire their students by exploring their local communities, being connected with them and taking their responsibilities as future citizens.

School Directors and sub directors, school heads, teachers in Primary and Secondary Education and the local community share responsibility and benefit through the increase of their communities' learning capital and the development of responsible citizenship. Teachers will be able to make students aware of the inspiration scientists have always derived from nature.

The notion of open schools will be considered – how can open schools encompass a wide range of skills and competencies. The training will be active. Participants will also learn how to prepare a KA1 project proposal for their schools and their subjects.

Post course social media will be used to support ongoing development of ideas and group support and feedback.

Target group:
The target group is schools or organizations which have strategies or core aims of integrating innovative teaching methods in either primary or secondary or vocational education. School Directors and subdirectors, school counselors, and innovative teachers will largely benefit from the course.

Preparation:
Participants will be expected to read the course program and pre released reading material before arrival.

Aims:
The Summer course will enable teachers to:

- guide their students in order to collaborate and explore regional and local issues of learning interest
- support their students in order to meet real needs in the community outside school and draw upon local expertise and experience
- strengthen their students competences about exploiting local natural environment resources and environmental footprint
- participate in school networks that provides good practices in helping students implementing in RRI (Responsible Research & Innovation) activities
- develop and enhance cross-cultural understanding and cooperation among teachers from different countries

Methodology:
The Summer course is designed to be highly engaging and interactive. Participating teachers will work individually and in small groups and thus will be able to collaborate with teachers from other countries, discuss ideas and exchange experiences. Learning by doing is our leading principle. This means that the training is organized in such a way that the participants cooperate actively in outdoor activities, group work as well as in plenary sessions.
All participants should be able to discuss and present in English language.

Outcomes:

- Meet and support the emerging needs of Leaders, Directors, Teachers and students to be innovative and creative in their role.
- Strengthen their willingness to participate in motivating and attracting learning procedures and enhance their interaction with local society and natural environment
- Interconnect schools developing school networks that will function as a network of "innovative learning communities" under RRI perspective.

Follow up:

At the end of the course, groups will share their work and feedback will be provided. As a follow-up, participants will have the opportunity to share ideas and suggestions about the possibility of implementation of the program in their classes creating an international school network. On return to their home locations participants will try out the different approaches with their students/pupils and share their experience and material with other participants through social media. The trainers will also give feedback and counselling through the same platform between training sessions.

Duration: 40 hours

DAY TO DAY TRAINING PROGRAM - AUGUST 26TH – 31ST

Day one: 26th

- Arrival of participants, registration, practical information about the program
- Getting together again, friendship's lunch in a Greek tavern by the sea
- Welcome, Ice Breaking & Team Building activities, group dinner and a short presentation of the program

Day two: 27th

- Designing Innovation
  a. Innovation in Education: What does it mean?
  b. Open School in local society: Why?
  c. Innovative learning in connection and interaction with the local environment
  d. (Theory and activities in classroom)
- The Open School to Society approach to school innovative activities, creativity and inclusion

Day three: 28th

- WorkShop
  a. Discover Nature's Genius in Pelion-Greece: Biomimicry methodology is inspiring for cutting-edge educators enabling them to introduce innovating learning
  b. Designing classroom activities by participants
- Participants' Presentations
- Practical Ideas for learning in a school open in local natural environment and society including its customs and traditions

Day four: 29th

- WorkShop: The mountain paths become path of knowledge. An innovative approach to education via geographic information system (GIS)

Day five: 30th

- Using Responsible Research & Innovation (RRI) on each country's local products as a job orientation for students
- Choosen greek product: olives – a presentation of an olive family-owned company
- Open Schools for Open Societies (OSOS) project: Presentation, benefits for schools
  a. How to write an ERASMUS application
  b. KA1: How to prepare the European School Development Plan for your school

Day six: 31st

- Participants'presentations reflection and certificates
- Participants' departures

Other information:
Accommodation & Subsistence: **565 Euro** per person, which Includes: hotels, all meals for all course days (**5** nights altogether), road trips and transportation from-to Volos, Greece.
Course fee: **420** Euro for each participant.

The flight to Greece and buses/trains are not included in the course fee.
The course will take place in a marvelous place called **DAMOUCHARI-Pelio** by the sea in front of a famous bay also known from the movie "Mamma Mia!". There, the participants will have full board during all course days and stay in double or threefold room with private bathroom.
-All participants of the course need to agree on using only this accommodation during the course days (that's a condition for us to get this very good price for the hotel).
-However, if any of the participants wishes to have a single room should inform us well in advance and pay an extra 50€ per day.
-In case a participant arrives earlier will have to pay for his accommodation and transportation.
Prices and program are no-negotiable.

At the end of the course the participants will have a certificate of attendance including description of participant's contribution and time input.

Course Trainers:
A. Dr Asimina Kontogeorgiou has been Counselor at the Institute of Educational Policy for Physics (Ministry of Education, Research & Religious Affairs) since November 2017. She was School Advisor for Science Teachers in the Prefectures of Larissa & Trikala (2007 –Nov 2017). She has worked as science teacher for about 25 years in Secondary Education.
She obtained a Postgraduate diploma of Specialization in Educational Administration and Management from the Department of Primary Education, University of Thessaly, Greece (2015), a PhD on Science Education in the Educational Approaches to Virtual Reality Technologies Laboratory from the Department of Primary Education, University of Ioannina, Greece (2006), a Master of Advanced Studies in Science Education (D.E.A) from University VII of Paris, France (1991) and a Degree in Physics from Physics Department, University of Athens, Greece (1980).
She has excellent organizational and managerial skills through her work as a School Advisor for 10 years and as a direct result of her participation in several innovative European and Greek Programs; the National Program of Teachers' Training, XPLORA, ISE and Open Schools for Open Societies, to name a few.
Furthermore, she is Member of the Board of Scientific Association for the Promotion of Educational Innovation (EEPEK) & member of other scientific and educational associations.

B. Dr. Kolokotronis Dimitrios has been School Advisor for Information Science in the Prefectures of Larissa & Karditsa since 2007. He is a writer of 6 books and 65 papers in International and Greek Scientific Journals.
His main interests concern Teaching Methodologies and Science Education. He has participated in many university research programs as well as in authoring teams that produce teaching material for Primary, Secondary and Higher Education. He has a teaching experience of more than 25 years in Secondary, Higher and Adult Education as well as in the training of trainers. Furthermore, he has participated in several innovative European and Greek Programs.
He owns a degree in Physics (Physics Dept., Univ. of Thessaloniki, Greece), an MSc degree in Software Systems Technology (Informatics Dept., Univ. of Sheffield, UK), a Master in Education (M.Ed.) (Hellenic Open Univ.), a Master degree in Modeling And Development Of Education (Univ. of the Aegean, Greece) and a PhD in Design, Development and Assessment of Educational Software (Univ. of Thessaly, Greece).
He is the President of the Scientific Association for Promoting Educational Innovation (E.E.P.E.K.), which has over 2.500 members (educators of all of specialties and all education levels) & member of

other scientific and educational associations.

C. Dr. Sofoklis Sotiriou worked at CERN, at the National Center for Scientific Research "DEMOKRITOS" in Athens and in the Physics Laboratory of Athens University. He holds a PhD in Astrophysics and a PhD in Technology Enhanced Science Education. He is the Head of R&D Department of Ellinogermaniki Agogi (since 1998), the first research department that operates in the school environment in Greece. Since 2001 he is the Director of the Ellinogermaniki Agogi Center for Science Teachers Training. His main research field is the design, application, and evaluation of virtual and digital media environments that could bridge the gap between formal and informal science learning. He has been involved in a long series of EC joint research and technology funded projects. He is a member of the European Academy of Sciences (since 2003), member of the board of ECSITE (2004 - 2009) and member of the NAP (Network of Academics and Professionals) Executive Committee of EDEN. He is member of the Steering Committee of EPS (European Physical Society) and he is responsible for the curriculum development of the European Science Education Academy, which will support the effective integration of Inquiry Based and Problem Based approaches in the teaching, through the development of effective Professional Development Programmes. He has also act as a consultant to the development of the FP7's Science in Society Work programme. He is author of numerous articles, publications and teachers' guides on the use of ICT in science education. He is also author of the Science Textbooks that are used in all primary Greek schools since 2003. In 2011 he has received the EPS-HEP award for developing resources that promote High Energy Physics and Astronomy in High Schools.

D. Kleopatra Alamantariotou was born in Larissa, Greece. She studied the art of Midwifery in Athens, Greece. She graduated from City University of London, UK and she obtained an MSc in Health Informatics in 2008. She received another MSc from Middlesex University in Midwifery in 2007. She is a PhD Candidate in innovation. She is leading and participating in many European Projects in innovative knowledge transfer, also she is a founder and CEO of Biomimicry Greece Research and Innovation Center mimic nature models and systems. The center is trying to unlock the mysteries of life and presents the creative silence of nature through art, science, technology and innovation.
She is in management committee, core groups, and working group leader of EU COST action. She has more than 8 year experience in European Projects and proposals. Between 2014-2016 she participated in WISE Women European Program. Since 2016, she is a global leader in NASA space and in collaboration with the open NASA Innovation Center. In 2017, the European Space Agency accepted her for training. She has won several awards and scholarships, including HULT PRIZE GREECE 2015, ECO-CITY 2017 Awards. Furthermore, she participates in educational programs at Bocconi University Milan Italy, and Trinity College Dublin. She joins membership of the Higher Education Academy in United Kingdom, and Greece Membership in UKCHIP (UK council for health informatics professionals) and also in global forum of health groups, smart cities.

E. Dimou G. Athanasios, studied at the Technological Educational Institute of Serres-Greece, in the department of Geoinformatics and Surveying (2007). He obtained a Master of Science in Geography and Applied Geoinformatics in stream of Geoinformatics (2013), in the Harokopeio University, Athens. Moreover, he acquired the Pedagogical sufficiency at the School of Pedagogical and Technological Education (2016). He also owns a Master of Science in the Greek-French Master Programme "Spatial Dynamics and Rural Planning" (DYNTAR, 2017), in the University of Thessaly, School of Engineering. From 2009 until today, he has been working as a freelance Engineer and he has also worked as a teacher in the field of Informatics and Computers in the Adult education. His scientific frames are in the fields of Geoinformatics (GIS, geodesy, Survey, UAV, Remote Sensing and Photogrammetry, Computer Science and teaching, mapping, cultural heritage).
He has much participation as a speaker at national conferences and workshops with various topics.
He has been awarded with the four-member team PROMETHEUS, in the annual competition of NASA

Space Apps 2017. He was the President of the Panhellenic Association of Graduate Engineers of Geoinformatics and Surveyors from 2015 to 2017. Member to several scientific and non-organizations. External Partner of the NGO Network of Perraivia. Languages: fluent English, Spanish.

F. Thomas M. Lazios was born in Thessaloniki, Greece. He studied at the Technological Educational Institute of Serres, in the department of Geoinformatics and Surveying (2005) and then he continued with the Master of Science in Geography and Applied Geoinformatics (2011), in the Aegean University. Moreover, he acquired the Pedagogical sufficiency at the School of Pedagogical and Technological Education (2013) and since 2016, he is a postgraduate student at the Aristotle University of Thessaloniki, in the department of Rural and Surveying Engineering "Geoinformatics: Modern Geodetic Applications". 2007 until today, he has been working as a freelance Engineer and at the same time he is cooperating with a research company. The Survey/ Geodesy, GIS, UAV/ Drones, Remote Sensing and Photogrammetry, Computer Science and teaching are included in his scientific frames. He has been awarded with the four-member team PROMETHEUS, in the annual competition of NASA Space Apps 2017.

G. Aliki Giannakopoulou is working in Ellinogermaniki Agogi since June 2014 as a researcher, mainly on the RRI TOOLS FP7 funded project and the Ark of Inquiry FP7 funded project. Aliki previously worked as a senior project manager at the External Relations department of the Science Center NEMO-NCWT, in Amsterdam, Netherlands developing new European collaborations and managing existing European projects. During her time in NEMO-NCWT she worked on a number of EU funded projects and was also responsible on fundraising. Before working for NEMO-NCWT she worked for six years at Ecsite, the European network of science centers and museums as a Communications, Conferences and EU projects Manager. In the past she has also worked in the United Kingdom at the Research Councils UK in the Science in Society Unit. She holds a Masters in Science Communication from the University of the West of England and a bachelor's degree in Environmental Science from the University of the Aegean in Greece.

H. Nikos Zygouritsas graduated from the National University of Athens, Department of Education Sciences. He was awarded a Master's Degree in Educational Technology from the Universite Libre de Bruxelles. He has worked as a researcher in the Department of Educational Technology in Universite Libre de Bruxelles and as an assistant for the on-line courses in Mons University (Educational Technology Unit). For three years (1999-2002), he worked as an ICT teacher in the European School of Brussels III. Since 2003, he works as a researcher for different European and Greek research and development organizations in the domain of education research and technologies. Since May 2014 he has been member of the Ellinogermaniki Agogi Research and Development team. He has participated in various projects for the application of new technologies in various educational settings, e-learning and teacher training. His main interests and activities are: 1) game based learning, 2) learning objects, metadata and educational repositories, 3) educational design of e-learning systems, 4) early childhood education, 5) action research in e-inclusion, 6) digital gap and 7) teacher training.