EDUCATIONAL CONFERENCE “TEACHING SCIENCES IN SCHOOLS WITH CREATIVITY AND INNOVATION: TRANSFORMING THE THEORY INTO PRACTICE”, Crete 6-11 December 2017, Greece
https://teachscisch.wordpress.com/

PROGRAM

WEDNESDAY 6 DECEMBER
Amphitheatre of 1st Lyceum of Rethymnon

SESSION 1. OPENING OF THE CONFERENCE
CHAIR Giannela Stella
16.30 WELCOMING AND INTRODUCING OF THE PARTICIPANTS

SESSION 2.
CHAIR Tsigkris Miltiadis
17.00 Giannela Stella ACTIONS-PROFESSIONAL ORIENTATION PROGRAMS IN THE CENTERS FOR COUNSELING AND VOCATIONAL GUIDANCE (KE.SY.P.) OF SECONDARY EDUCATION
17.15 Meogrossi Pierro, LE FORME PREFERITE DELLA MENTE- THE LABORATORIUM IN VENICE 2017
17.30 Drakaki Maria, YOUTH IN GREECE IN THE ERA OF THE CRISIS: THE STATE OF PLAY
17.45 Demetriou-Chatzichristou Chrysooula THE ROLE OF TEACHER IN STUDENT ASSESSMENT IN CYPRUS EDUCATIONAL REFORMATION
18.00 Kasimati Aikaterini FOSTERING 21ST CENTURY SKILLS THROUGH AN AUTHENTIC LEARNING AND ASSESSMENT FRAMEWORK
18.15 Kalathaki Maria, THE TEACHERS’ TRAINING IN THE REGIONAL TRAINING CENTERS OF GREECE-25 YEARS EXPERIENCE
18.30 Round Table TRAINING AND RE-TRAINING OF SCIENCE TEACHERS, Coordinator: Tsigkris Miltiadis,
19.30 CONCLUSIONS AND SUGGESTIONS

THURSDAY 7 DECEMBER 2017
Polykendro of Platanias Municipality, Chania

SESSION 3.
CHAIR Malandrakis I
09.00 Arrivals of the Students and Teachers. Welcoming by Simandirakis Panagiotis, Appointed Counselor for Education of Chania prefecture, Region of Crete
09.30 Malandrakis I THE VISION FOR THE EDUCATION OF PLATANIAS MUNICIPALITY TO AVOID THE STRONG CONSEQUENCES OF THE ECONOMICAL CRISIS (in Greek)
10.00 Malandraki S WHAT THE STUDENTS NEED FROM THEIR LOCAL COMMUNITY-DISCUSSION WITH STUDENTS (in Greek)
10.30 Zorbas K, THE EDUCATIONAL WORK OF ORTHODOX ACADEMY OF CRETE
11.00 BRAKE WITH THE MUSIC SCHOOL OF CHANIA

SESSION 4.
CHAIR Kalathaki M
11.30 Demetriou-Chatzichristou C, THE ROLE OF PROJECT IN STUDENT ASSESSMENT IN MATHEMATICS AND SCIENCE EDUCATION
12.00 Adamidis A & Students of Lyceum Voukolies, APPLYING THE KNOWLEDGE OF CHEMISTRY AND BIOLOGY OF THE LYCEUM TO PRODUCE BIODIESEL FROM USED COOKING FATS AND SPIRITS OF FALLEN ORANGES
12.15 Meogrossi P, THINKING BEYOND THE USUAL: THE SAME SUNLIGHT NATURALLY ACCORDED TO AN ANCIENT CODE HERITAGE (in English)

13.00 BRAKE

SESSION 5.
CHAIR Chatzichristou Chrysoula
15.00 Kalathaki M, TRANSFORMING THE SCHOOL SCIENCE LABORATORIES INTO CIVIC TECH HUBS FOR SHARING KNOWLEDGE AND IDEAS (In Greek)
15.30 WORKSHOP with the subject ‘UTOPIA & REALITY’. Coordinator Piero Meogrossi (in English and Greek)
16.30 DISCUSSION, CONCLUSIONS, SUGGESTIONS FOR SCIENCE FUTURE TEACHING IN SCHOOLS

FRIDAY 8 DECEMBER 2017
1st Public Institute of Vocational Training in Heraklion-Library

SESSION 6
CHAIR Saitakis Artemis
14.30-15.30 WORKING LUNCH ON "BUILDING PARTNERSHIPS IN STEM EDUCATION & TRAINING FOR YOUTH ENTREPRENEURSHIP"
15.30 Honorary Reception Ceremony for the Volunteers of the LIBRARY OF REGIONAL TRAINING CENTER OF HERAKLION, donors of books and services
-Kalathaki Maria, INITIATIVES OF EDUCATIONAL ADMINISTRATION EXECUTIVES: CONSTRUCTION OF THE LIBRARY OF DIDACTIC AND PEDAGOGIC CONTENT, A CASE STUDY

FRIDAY 8 DECEMBER 2017
Regional Training Center of Heraklion-Classroom of History

SESSION 7
CHAIR Kalathaki Maria
16.00 Chaimala F SUPPORTING STEM TEACHERS’ COMPETENCE DEVELOPMENT THROUGH INQUIRY BASED LEARNING: THE ELITE PROJECT APPROACH
16.30 Argypoulou E, APPROACHES TO DEVELOP ETHICAL LEADERSHIP IN SCHOOLS’
17.00 Podaras D, Plaiti W, Polychronaki T HELLENIC CENTRE FOR MARINE RESEARCH: AIMING TOWARD, A STUDENT CENTERED, INNOVATIVE AND INTERACTIVE TEACHING OF MARINE SCIENCES
17.30 Tzianoudakis G, Tzianoudakis L YOUNG ENTREPRENEURSHIP IN CRISIS SEASONS: LESSONS AND COMPLICATIONS

SESSION 8
CHAIR Dimitriou Polyxeni
17.45 Tsigkris M WE START FROM SCIENCE, LIKE...S.T.E.M.
18.00 Nadaban L NON-FORMAL TECHNIQUES IN TEACHING
18.15 Tsagkatakis I THE PHILOSOPHY OF “VRISKOUMENO” IN THE CRETAN NUTRITION
18.30 Owens G FROM LINEAR B TO THE PHAISTOS DISC
18.45 Discussion with Erasmus Students hosting by the Technological Educational Institute of Crete about the importance of students mobility in the framework of Erasmus projects
19.00 Team of Astronomy of the University of Crete STARS OBSERVATION

21.30 DINNER
SESSION 9.
CHAIR Ucar Sedat
10.00 Fountoulakis A, Manouras F, Maroukli M A STEM SCHOOL PROJECT: ABOUT EVERYTHING UNDER THE SUN
10.15 Ucar S A MODEL OF TEACHING TIDES
10.30 Dimitriou P THE ROLE OF THE LEADERSHIP OF THE INSTITUTION OF VOCATIONAL TRAINING AND ITS IMPACT ON THE MOTIVATION OF ITS EDUCATIONAL STAFF
10.45 Paraschou T INQUIRE BASED LEARNING AND EXPERIMENTS WITH DAILY MATERIALS. THE EXAMPLE OF TOOTHPASTE
11.00 Archontaki N CHEMISTRY CREATES LIQUEUR-AN EDUCATIONAL SEMINAR IN SCHOOL
11.15 Schoinoplokaki E MAKING HANDMADE SOAPS AT HOME AND SCHOOL LABORATORY

SESSION 10.
CHAIR Cakmakci Gultekin
12.00 Lampakis S DISASTER RESPONSE SKILLS AND ATTITUDES IN TEENAGE POPULATIONS: A SURVEY ON ADOLESCENT POPULATIONS
12.15 Rovithis M EFFECTIVE TEACHING SKILLS—HOW TO BECOME A BETTER EDUCATOR FOR HEALTH RELATED COURSES
12.30 Demetriou–Hadjichristou C THE LAKATOSIAN METHOD FOSTERS TRANSITION FROM THE ALTERNATIVE CONCEPTIONS TO THE SCIENTIFIC CONCEPTS: AN EXAMPLE IN GEOMETRY OF THE COGNITIVE CONFLICT MAP BASED ON LAKATOSIAN METHOD.
12.45 Tsoutsoudakis A A HIGH SCHOOL STUDENTS ON THEIR WAY TO SCIENCE–THE BEAMLINE FOR SCHOOLS COMPETITION
13.00 Zacharioudaki A DIOSCORIDES PEDANIUS, FATHER OF PHARMACOLOGY
13.15 Andreadis E, Xiraki Sofia SACRED? TRIANGLES OF ANTIQUITY
13.30 Meogrossi P, MEDITERRANEAN HERITAGE: A NOSTOS FROM CRETE TO ROME-L’ISOLA DI Creta ESTREMITÀ E FUTURO DI EUROPA

SESSION 11.
CHAIR Kalathaki Maria
15.00 Workshop Coordinated by Kalathaki M & Nadaban Laura RETHINKING ON ESSEL: a European Project for collaborative didactic research and entrepreneurship in Education

SESSION 11.
CHAIR Tsiotis Stavros
16.00 Excursion to Agios Nikolaos, Elounda, Spinalonga
21.30 DINNER
SUNDAY 10 DECEMBER 2017
Regional Training Center of Heraklion

SESSION 12.
CHAIR Kadir Demir
09.30 Michailidi A, Eleftheriou M, Siligardou F SCIENTIX THE COMMUNITY FOR STEM EDUCATION IN EUROPE
10.00 Venetis C, Pentheroudakis G and Tsigris M “LAB-MADE” INSTRUMENTS IN BIOLOGY TEACHING
10.15 Chalkiadakis C WALKING AROUND THE SOLAR SYSTEM
10.30 Mavromatakis G A SIMULATION OF THE HUMAN DIGESTIVE SYSTEM
10.45 Altas E AN EXPERIENCE OF PARTICIPATING IN A ESA ROBOTICS TEACHER TRAINING WORKSHOP
11.00 Vogiati E, Deiktaki A, Katsarou V STUDENTS4EUROPE: EDUCATING/TRAINING STUDENTS AS CITIZENS THROUGH THE SIMULATION OF THE EUROPEAN PARLIAMENT, SCIENTIFIC LITERACY AND ACTIVE CITIZENSHIP
11.15 Zaneka S ASCLEPIUS AND THE HEALING CHARACTER OF THE TEMPLES OF ASCLEPIUS

11.30 BRAKE

SESSION 13.
CHAIR Chaniotakis N
12.00 Kadir D EXAMINING USA’S VISION OF STEM EDUCATION: ISSUES, CHALLENGES, AND PROMISES
12.30 Cavas B
13.00 Çakmakçı G ENGINEERING PRACTICES IN EDUCATION: DESIGN THINKING
13.30 Uçar S THE CONNECTION BETWEEN THE STEM AND ENTREPRENEURSHIP EDUCATION

14.00 BRAKE

SESSION 14.
CHAIR Cavas Bulent
15.00 Round Table with Professors of Higher Education with the issue of “The future of Secondary Education Teachers’ Training in Science Education: international trends, challenges and initiatives’. The professors will have a short presentation of 5 minutes and then discussion Coordinator: Bulent Cavas.
Professors Panel:
• Teacher training and beyond: Prof.Dr.Bulent Cavas, Dokuz Eylul University, Turkey, ICASE – Moderator
• Strengths and weaknesses in teacher training and challenges in USA: Assoc.Prof.Dr.Kadir Demir, Georgia State University, USA
• Strengths and weaknesses in teacher training challenges in UK: Assoc.Prof.Dr.Gultekin Çakmakçı, Hacettepe University, Turkey
• Preparing the new generation of Science Teachers: Chaniotakis Nikolaos, Dean of the School of Sciences & Engineering, University of Crete
• Beyond the teacher training: Professional Developments of Teachers: Assoc.Prof.Dr.Sedat Uçar, Çukurova University, Turkey
• Research tendencies on Science Teachers’ Training: Foteini Chaimala, Postdoc Researcher, Educational Research & Evaluation (ERE) Group, Institute of Applied & Computational Mathematics (IACM), Foundation for Research and Technology Hellas (FORTH), Greece
• The past and the unknown future in teacher training in Greece: Maria Kalathaki, Director of the Regional Training Center of Heraklion, Greece
SESSION 15.
CHAIR Tsigkris Miltiadis
16.00 Award of honorary diploma for the retirement of the Head of the Laboratory Science Center of Chania Mr Markogiannakis Dimosthenis

SUNDAY 10 DECEMBER 2017
GUIDED TOUR IN THE HISTORICAL CITY OF HERAKLION

SESSION 16.
CHAIR Papastefanaki A
17.30 Papastefanaki A, Pantelaki E HISTORICAL BUILDINGS & DETERMINATIONS IN THE CITY OF HERAKLION

FREE NIGHT

MONDAY 11 DECEMBER 2017
IN THE LABORATORIES OF THE TECHNOLOGICAL AND EDUCATIONAL INSTITUTE OF CRETE

SESSION 17.
CHAIR Xanthos Georgios
09.30 Mavromatakis F, LABORATORY OF ENERGY AND PHOTOVOLTAIC SYSTEMS
10.30 Papadakaki M, LABORATORY OF HEALTH & ROAD SAFETY

SESSION 18.
CHAIR Kalathaki Maria
11.30 Ververidis Ph. Guide in the TEI FARM.
12.30 CONCLUSIONS & SUGGESTIONS CLOSING OF THE CONFERENCE, DEPARTURE OF DELEGATIONS

The diet of meetings is a voluntary affair of many locals
The participation is optional

PARTICIPANTS WITH LECTURES
1. Adamidis Adam, Chemist, Teacher in General Lyceum of Voukolies Chanion
2. Altas Evaggelos, Physicist, Teacher in 3rd Gymnasium of Rethymnon, Crete
3. Andreadis Emmanouel, Geologist, Teacher in Gymnasium Neas Kydonias, Chania, Crete
4. Archontaki Nectaria, Chemist, Teacher in Gymnasium of Vryses, Apokoronas, Crete
5. Argyropoulou Eleftheria, Assistant Professor [Organization, Management and Leadership in Education], University of Crete, Rethymnon
6. Cavas Bulent, Professor of Science Education, Dokuz Eylul University, Faculty of Education, Department of Science Education, President of the International Council of Associations for Science Education (ICASE), Board Member Council of Elementary Science International (CESI), Buca-Izmir, Turkey
7. Çakmakçı Gultekin, Assoc.Prof.Dr., Hacettepe University, Ancara, Turkey
8. Chaimala Foteini, Postdoc Researcher, Educational Research & Evaluation (ERE) Group, Institute of Applied & Computational Mathematics (IACM), Foundation for Research and Technology Hellas (FORTH), Heraklion, Crete
9. Chalkiadakis Konstantinos, Physicist, Teacher in 3rd Gymnasium of Rethymnon, Crete
10. Chaniotakis Nikolaos, Dean of the School of Sciences and Engineering, University of Crete
11. Deiktaki Anastasia, Teacher of Social Sciences, Experimental Lyceum of Rethymnon, Crete
13. Dimitriou Polyxeni, Teacher-Economist, Adult Education, Director of Institute of Vocational Training of Epanomi, Thessaloniki
14. Drakaki Maria, School Advisor for Primary Teachers of Heraklion, Crete
15. Drakaki Maria, Sociologist, PhD Candidate at the Department of Political Science of the University of Crete and Researcher at the Centre for Political Research and Documentation (KEPET)/UCRC of the University of Crete
16. Eleftheriou Maria, Scientix Ambassador, STEM Secondary teacher, Heraklion, Crete
17. Fountoulakis Antonios, Physicist, Computing Science, Department of Electrical Engineering, Technological Educational Institute of Crete
18. Garancini Gian Andrea Paolo, Appointed Counselor for Tourism in Heraklion Municipality, Crete
19. Gianella Stella, Adviser on School Vocational Guidance, Center for Counseling and Vocational Guidance (KE.SY.P.) of Rethymnon, Crete
20. Kadir Demir, Associate Professor of Science Education, Associate Editor of School Science Mathematics, MSE- Department of Middle and Secondary Education, College of Education & Human Development, Georgia State University, Atlanta, USA
21. Kalathaki Maria, School Advisor for Science Teachers, West Crete prefecture, Director of the Regional Training Center of Heraklion, Regional Administration of Primary & Secondary Education of Crete
22. Katsarakis Nikolaos, Professor, New Rector of the Technological Educational Institute (TEI) of Crete
23. Katsarou Vasiliki, Teacher of Social Sciences, Experimental Lyceum of Rethymnon, Crete
24. Lampakis Stylianos, Doctor, National Ambulance, Crete
25. Malandrakis Ioannis, Mayor of Platanias Municipaly, Chania, Crete
26. Markogiannakis Dimosthenis, Chemist, retired Head of the Laboratory Science Center of Chania
27. Maroukli Maria, Mathematician, Teacher in Archanes Lyceum, Heraklion, Crete
28. Mavromatakis Fotis, Professor, Laboratory of Energy and Photovoltaic Systems, Technological and Educational Institute of Crete
29. Meogrossi Piero, Architect, Speciale Soprintendenza Beni Archeologici Roma (SSBAR)/Ministero Beni Culturali (MIBACT), Rome, Italy
30. Milathianaki Marilena, Primary Teacher, Regional Administration of Primary & secondary Education of Crete
31. Michailidi Afrodit, Scientix Ambassador, STEM Secondary teacher, Heraklion, Crete
32. Nadaban Laura, Linguistic Inspector, Arad County School Inspectorate, Romania
33. Owens Gareth, International Relations Office of Technological Educational Institute (TEI) of Crete
34. Pantelaki Eleftheria, Greek Literature Teacher in Archanes Gymnasium, Heraklion, Crete
43. Panteri Maria, Psychologist, Deputy Psychologist at the Center for Diagnosis, Differentiation & Support (KEDDY) of Heraklion, Crete
44. Papadakaki Maria, Professor, Laboratory of Health & Road Safety, Technological and Educational Institute of Crete
45. Papastefanaki Anna, Greek Literature Teacher in Meleses Lyceum, Heraklion, Crete
46. Paraschou Theodoros, Geologist, Teacher in 3rd Lyceum of Chania, Crete
47. Pentheroudakis Georgios, Biologist, Teacher in Experimental Lyceum of Rethymnon
48. Plati W, Cretaquarium
49. Podaras dimitrios, Cretaquarium
50. Polychronaki Thaleia, Cretaquarium
51. Rovithis Michael, Lecturer in Nursing Department, Technological Educational Institute (TEI) of Crete
52. Saitakis Artemis, Director of the Scientific & Technological Park of Crete (STEP-C), Foundation of Research and Technology-Hellas (FORTH), Heraklion, Crete
53. Schoinoplokaki Evaggelia, Chemist, Teacher in 1st Gymnasium of Kisamos, Chania
54. Silligardou Fotini, Scientix Ambassador, STEM Secondary teacher, Heraklion, Crete
55. Simandirakis Panagiotis, Appointed Counselor for Education of Chania prefecture, Region of Crete
56. Tsagatakakis Ioannis, Chemist, Trainer at the 1st Public Institute of Vocational Training (IEK) of Heraklion, Crete
57. Tsigkris Miltiadis, Chemist, Head of the Science Laboratory Center of Rethymnon, Crete
58. Tsoutsoudakis Astrinos, Physicist, Teacher in General Lyceum of Gazi, Heraklion, Crete
59. Tzianoudakis Georgios, owner of the Cretan Organic Olive Oil Company ‘Cretanthos’, Rethymnon, Crete
60. Tzianoudakis Leonidas, Chemist, Retired Teacher of Secondary Education of Rethymnon, Crete
61. Tziotis Stavros, Geologist, Teacher in Meleses Gymnasium, Heraklion, Crete
62. Ucar Sedat, Associate Prof. Dr., Cukurova University, Faculty of Education, Department of Mathematics and Science Education, Elementary Science Education, Saricam-Adana, Turkey
63. Venetis Konstantinos, Biologist, Member of the Pedagogical Team of SLC-R
64. Ververidis Philippos, Professor, Dean of the School of Technology for Farming and Food of the Technological and Educational Institute (TEI) of Crete
65. Vogiatsi Eirini, Teacher of Greek Language, Experimental Lyceum of Rethymnon, Crete
66. Xanthos Georgios, Assistant Professor and Scientific Coordinator of the Interconnection Office of Technological Education Institute (TEI) of Crete
67. Xiraki Sofia, Mathematician, Teacher in Gymnasium Neas Kydonias, Chania, Crete
68. Zacharioudaki Adroniki, Doctor of Haematology, ex-Director of the Blood Bank of the General Hospital of Chania Crete
69. Zaneka Stergiani, Greek Literature Teacher in 1st Lyceum of Chania, Crete
70. Zormpas Konstantinos, General Director of the Orthodox Academy of Crete, Colibari, Chania