

HSCI2021 – Program – live online

July 19 to July 23, 2021

Lisbon time (GMT, Daylight Saving Time: summer time)

<https://www.timeanddate.com/worldclock/>

Monday, 19th July 2021

13.40 - Opening

13.45 – Invited presentation - Introducing the International Council of Associations for Science Education (ICASE), *Dr Declan Kennedy, President-Elect ICASE, Senior Lecturer in Science Education, University College Cork, Ireland*

14.00 - Plenary lecture - The progression of children learning about ‘nature’ in our living world, *Sue Dale Tunnicliffe*

14.40 - Perception of Recycling and Environmental Pollution in Preschool Children, *Emine Akkaş Baysal*

15.00 - Augmented Reality Applications in Preschool Science Education, *Kerem İçel*

15.20 - Online STEM Practice Example Pythagoras Cup, *Berrak Kocaman*

15.40 - The Effect of STEM Activities on Preschool Children's Basic Process Skills, *Kerem İçel*

16.00 - Determining the Opinions of Preschool Children About Science and Scientist Through Short Stories, *Emine Akkaş Baysal*

16.20 - The View of Secondary School Students on Using Digital Stories in Social Sciences, *Burak Olur, Gürbüz Ocak*

16.40 - The effect of the consequence wheel and the priority pyramid on the English-speaking skills in online lessons, *Ayşegül Kutlu Çakın, Gürbüz Ocak*

17.00 - Humanities, Science and Teaching: The case of vowels of the Portuguese language, *Helena Rebelo*

Tuesday, 20th July 2021

13.20 - Plenary lecture - The Experimental and Historical Foundations of Electricity, *Andre Koch Torres Assis*

14.20 - Plenary workshop - Online and Remote Outreach Lectures on Physics Concepts, *José Benito Vázquez Dorrío, Miguel Ángel Queiruga-Dios*

15.00 - Plenary lecture - Best World Practices for Hearing Impaired Learners: the Project Overview, *Iryna Berezovska, Mariya Golovchak, Kseniia Minakova*

15.40 - Lab in a box, Future with Science, *Joana Loureiro, Rodrigo Abreu, Joana Gonçalves-Sá, Inês Bravo*

Wednesday 21th July 2021

- 13.20 - Plenary lecture - Down to Earth - literally. Teaching soil, *Denise Balmer*
- 13.50 - Plenary lecture - Young Science Students as Asimov's Followers, *Josep Maria Fernández Novell, Carme Zaragoza Domenech*
- 14.20 - Invited lecture - COVID-19 Engineering Design Challenge, *Teresa Kennedy*
- 14.40 - Physics from teaching to coaching - Tesla Hands-On Science Academy, *Emad Hassan El-Shafey*
- 15.00 - Home Making Videos Help Students to be More Communicative, *Hassan Hazarkhani*
- 15.20 - Introducing Programming to Basic Schools Students Using Robotics, *Victor Martins, Manuel Costa*
- 15.40 - Plenary lecture - Demystifying the basics of Image Processing with OpenCV and Python, *Fernando Ribeiro*

Thursday 22th July 2021

- 13.20 - Plenary lecture – Covid-19 Pandemic II Wave in India: Role of Sciencetons and Sciencetonics, *Pradeep Kumar Srivastava*
- 14.20 - COVID-19 and the Plastic Crisis: two proposals for Environment Education Approaches, *Ana Catarina Santos, Tiago Assis, Tiago Pinho, Carlos M. Pereira, Sofia Oliveira, Joana Lourenço, Ruth Pereira*
- 14.40 - Koffeeco - a residue treating the environment, *Leonor Oliveira, João Freitas, Luísa Couto e Tomás Barros*
- 15.00 - The role of synchronous tools in online learning practices after the pandemics, *Sónia Seixas, Victor Rocio*
- 15.20 - Live streaming outreach: Twitch as an alternative in pandemic times, *Carlos Damián Rodríguez Fernández, B Carnero, M Canabal, D Ínsua-Costa, A Doval, A Muñoz-Ramos, R Sánchez-Cruz, R Liñares, X González-Iglesias, MT Flores-Arias*
- 15.40 - Tangible Objects in ESL Classroom: impact in learning at Primary school level, *Cláudia Meirinhos, Liliana Fernandes*
- 16.00 - Photovoltaic Solar Energy. A Pedagogic Approach, *João Castro, Manuel Costa*

Friday 23th July 2021

- 13.20 - Plenary lecture - Animated Sciencetons: an opportunity in distant and online teaching and learning science, *Vishal Muliya*
- 14.20 – Scienceton creation and teacher education: a case study, *Rupal Mankad*
- 15.00 – Planning STEM lessons with pre-service classroom teachers: Edible Car (Rolling vegetables). *Şule Bayraktar*
- 15.20 - Candasat II: a satellite in a soft drink can, *Francisco Javier Redondas Maseda*
- 15.40 - SAYANSI! Seeds of Science for a Sustainable Future, *Manuel Ballatore, M. Ragio*
- 16.00 - **Closing remarks**

FULL LIST OF CONTRIBUTIONS (alphabetical order)

- A year of the COVID-19 Lockdown: comparative analysis of Distance Learning approaches in TNMU
- Animated Sciencetons: an opportunity in Distant and online teaching and learning science
- Application of the Interrupted Case Method in Undergraduate Chemistry Teaching
- APPS 4 SCHOOL A Citizenship and Development Project with VET Students
- Augmented Reality Applications in Preschool Science Education
- Best World Practices for Hearing Impaired Learners: the Project Overview
- Candasat II: a satellite in a soft drink can
- Chemical degradation of synthetic polymers surgical masks
- Contributions of Postgraduate Studies in Brazil to the Academic Impact of the United Nations: a rapid narrative review
- COVID-19 and the Plastic Crisis: two proposals for Environment Education Approaches
- COVID-19 Engineering Design Challenge
- Covid-19 Pandemic II Wave in India: Role of Sciencetons and Sciencetronics
- Demystifying the basics of Image Processing with OpenCV and Python
- Determining Preschool Children's Opinions About Science and Scientist Through Short Stories
- Determining The Opinions of Preschool Children About Science and Scientist Through Short Stories
- Down to Earth - literally. Teaching soil
- Environmentally Friendly Homes Acoustic Isolation with Domestic Wastes
- Hands-on an everyday chemistry podcast: the case of *Minuto da Química*
- History of Science in promoting argumentation for future chemistry teachers
- Home Making Videos Help Students to be More Communicative
- Humanities, Science and Teaching: The case of vowels of the Portuguese language
- Interrupted Case Studies in Undergraduate Chemistry Teaching
- Introducing Programming to Basic Schools Students Using Robotics
- Introducing the International Council of Associations for Science Education (ICASE)
- IT-Based Visualization in Educating Hearing Impaired Learners
- Joint Training on Judo for Deaf and Ordinary Children
- Koffeeco - a residue treating the environment
- Lab in a box, Future with Science
- Live streaming outreach: Twitch as an alternative in pandemic times
- MaiActing, Portugal changing! A Climate Action Project in an 8th grade CLIL class
- Miller polyhedron as a STEAM project
- Modeling a NETmix Reactor for Mixing and Chemical Reaction
- Monitoring of environmental parameters at schools for the improvement of academic performance and airborne diseases control
- Nanosystems for Environmental Remediation - Optical Sensors
- Online and Remote Outreach Lectures on Physics Concepts
- Online STEM Practice Example Pythagoras Cup
- Perception of Recycling and Environmental Pollution in Preschool Children
- Photovoltaic Solar Energy. A Pedagogic Approach
- Physics from teaching to coaching - Tesla Academy for Hands-on Science
- Planning STEM lessons with pre-service classroom teachers: Edible Car (Rolling vegetables)
- SAYANSI! Seeds of Science for a Sustainable Future

- Science Tech Weekend School “Welcome to Photovoltaic Universe!”
- Science, Play and Progression in Early Years
- Sciencetoon Creation and Teacher Education: A Case Study
- Study of socio-ecological sustainability in the continuing education of Pedagogy teachers from the perspective of gamification
- Tangible Objects in ESL Classroom
- Textual Understanding of Original Research Articles by Undergraduate Chemistry Students
- The Bacteria Geobacter as a Prospective Source of Green Electricity
- The Effect of STEM Activities on Preschool Children's Basic Process Skills
- The effect of the consequence wheel and the priority pyramid on the English speaking skills in online lessons
- The Experimental and Historical Foundations of Electricity
- The role of synchronous tools in online learning practices after the pandemics
- The Sea Starts Here. A success case in Sines (Portugal)
- The View of Secondary School Students on Using Digital Stories in Social Sciences
- Towards Socio-ecological Sustainability in Elementary School through Problem Based Learning
- Transferable Methodologies Between In-Class and Online Learning - A Three-steps Learning Process
- Views of Students from an Integrated Middle Level Technical Course in Brazil on Scientific Inquiry
- Young Science Students as Asimov's Followers