

# ***Online Symposium on Circular Economy and Sustainability***

***Alexandroupolis, Greece***

***1-3 July, 2020***

**Organized by**

***INFER – International Network for Economic Research  
Department of Environmental Engineering, Democritus  
University, Thrace***

## **CONFERENCE PROGRAM**



# CONFERENCE PROGRAM

Time refers to: **Central European Time**

Preparation time refers to: **A final check to Presenters' microphones and cameras.**

**Wednesday, July 01, 2020**

**08:00 to 09:35** **Session 1**

**Chair: Eleni Sardianou**

08:00 to 08:10 Preparation time

08:10 to 08:30 Welcome, Ioannis Kostakis, Konstantinos P. Tsagarakis (Symposium Chairs)  
 Maria Michalopoulou (Vice Rector of Democritus University of Thrace)

08:30 to 08:45 Nikou, V., Sardianou, E., Evangelinos, K., Nikolaou, I. ["Circular economy: An analysis of 139 definitions"](#)

08:45 to 09:00 Tanchovski, B., Tsagarakis, K.P., Kostakis, I., Trajanov, D. ["Identifying Indicators Relating to the Circular Economy Using Semantic Textual Similarity"](#)

09:00 to 09:15 Miniaoui, H. ["Circular Economy for Sustainable Development: An Appraisal of the Arab Gulf Region"](#)

09:15 to 09:35 Discussion

**09:35 to 11:45** **Session 2**

**Chair: Christian Oberst**

09:35 to 09:50 Preparation time

09:50 to 10:05 Kuok, F., Promentilla, M.A.B., ["Public-Private Partnership for SMEs: Challenges and opportunities in Circular Economy"](#)

10:05 to 10:20 Sardianou, E., Paparas, D., Provataris, S., Kostakis, I., Saiti, A. ["Green Bonds -A change in investors preferences toward renewable energy, energy efficiency, sustainable agriculture? Empirical Evidence from the U.K."](#)

10:20 to 10:35 Ioannidis, F., Kosmidou, K., Kalaitzoglou, I., Papaefthymiou, S. ["Investing in bridging fuels: The unit commitment problem of public VS private ventures"](#)

10:35 to 10:50 Smol, M. ["Implementation of the Circular Economy \(CE\) model and the European Green Deal strategy - perspective of mineral resources management"](#)

10:50 to 11:05 Kalogiannis, A., Spyridonidis, A., Vasiliadou, I.A., Stamatelatou, K. ["Biogas production from chicken manure wastes using a two-stage LBR-CSTR system: The effect of zeolite as bulking and adsorbing agent"](#)

11:05 to 11:20 Oberst, C., Harmsen-van Hout, M.J.W. ["Adoption and Cooperation Decisions in Sustainable Energy Infrastructure: Evidence from a Sequential Choice Experiment in Germany"](#)

11:20 to 11:50 Discussion

**11:50 to 13:00** Session 3 (Keynote Presentations)  
 Chair: Christian Oberst

11:50 to 12:00 Preparation time

12:00 to 12:30 **George Kremlis**, European Commission, President of the Circle the Med Forum and Honorary president of the International “Circular Clima Institute” of the European Public Law Organization (EPL0)  
*“Circular Economy Policies in Europe”*

12:30 to 13:00 **Prof. Adisa Azapagic**, University of Manchester, Professor of Sustainable Chemical Engineering, Head of Sustainable Industrial Systems, Founding Editor-in-Chief of Sustainable Production and Consumption, Editor-in-Chief of Process Safety and Environmental Protection  
*“Understanding the life cycle implications of the circular economy”*

**13:00 to 15:15** Session 4A - parallel session  
 Chair: Elias Soukiazis

13:00 to 13:15 Preparation time

13:15 to 13:30 **Nguyen, H.Q., Chan, L., Rijke, J., Geerling, L., Koeblinger, W.**, [\*“Demonstrating the Viability and Practicality of Integrating Plastic Wastes in Circular Economies in Vietnam”\*](#)

13:30 to 13:45 **Soukiazis, E., Proença, S.** [\*“Exploring the driving forces of waste generation in the Portuguese municipalities”\*](#)

13:45 to 14:00 **Orfanidou, V.S., Rachaniotis, N., Tsoulfas, G.T.** [\*“Green Public Procurement: Evidence from Greece”\*](#)

14:00 to 14:15 **Di Foggia, G., Beccarello, M.** [\*“Solid waste treatment industrialization and circular: economy goals: the Italian case”\*](#)

14:15 to 14:30 **Bezirgiannidis, A., Chatzopoulos, P., Tsakali, A., Ntougias, S., Melidis, P.** [\*“Anareobic digestion of sewage sludge derived from chemically enhanced primary treatment \(CEPT\)”\*](#)

14:30 to 14:45 **Melgarejo, P.L., Molinos-Senante, M.** [\*“Assessing the eco-efficiency of municipalities in the provision of solid waste services: An empirical application for Chile”\*](#)

14:45 to 15:15 Discussion

**13:00 to 15:15** Session 4B - parallel session  
 Chair: Joost Burman

13:00 to 13:15 Preparation time

13:15 to 13:30 **Karytsas, S., Theodoropoulou, E.** [\*“A research on Greek energy communities: public awareness, intention to participate and invest”\*](#)

13:30 to 13:45 **Kruse, H.W., Rocha, T.N., Turcu, C.** *“Infrastructure aid for resource trade? The crossroads of strategy and sustainable development”*

### Final Program

- 13:45 to 14:00 Reganon, M.L., Ragu, V., Goette, L., Buurman, J., Leong, C., "[Singapore's Smart Shower Program: Real-Time Feedback and Water Conservation](#)"
- 14:00 to 14:15 Fragkos, S. "[Circular Economy and Sustainable Development - the case of viticulture and winemaking in Thessaly Region of Greece](#)"
- 14:15 to 14:30 Stathakis, E.D., Stambologlou E., Manoliadis, O., "[Ex post evaluation of developmental interventions in large scale infrastructure projects: The case of Vistonida rural area](#)"
- 14:30 to 14:45 Saidani, M., Yannou, B., Leroy, Y., Cluzel, F., Kim, H. "[How circular economy and industrial ecology concepts are intertwined? A bibliometric and text mining analysis](#)"
- 14:45 to 15:15 Discussion

15:15 to 18:00 **Session 5**  
 Chair: Camelia Turcu

- 15:15 to 15:30 Preparation time
- 15:30 to 15:45 Turcu, C., University of Orleans, France,  
 Head of INFER Organization, "[Welcome address from INFER](#)"
- 15:45 to 16:00 Chiaroni, D., Franzò, S., Urbinati, A. "[Enablers and Barriers for Circular Business Models: An empirical analysis in the Italian electric mobility industry](#)"
- 16:00 to 16:15 Silva, V., Mucha, A., Arenas, F., Calheiros, C. "[Green Roofs in coastal areas](#)"
- 16:15 to 16:30 Lemonakis, C., Alexopoulos, G., Garefalakis, A., Garefalakis, S. "[The Greek urban growth model: The effects of the convergence and the concentration](#)"
- 16:30 to 16:45 Ferreira, C.S., Gomes, G.M., Natalense, J.C., Roiz, G.A., Ometto, A.R., Gerolamo, M.C. "[Mapping organizational culture in the context of the circular economy: a case study of a Brazilian company](#)"
- 16:45 to 17:00 Tams, L., Calheiros, C., Nehls, T. "[Rethinking Green Roofs - Potential of Natural and Recycled Green Roof Materials to Improve their Ecological Footprint](#)"
- 17:00 to 17:15 Kedjar, M., Coll-Martinez, E. "[Assessing the intensity and spatial extent of knowledge spillovers for green technologies](#)"
- 17:15 to 17:30 Mutascu, M., Turcu, C., Zhang, Y. "[A Time-Frequency Study of Oil Price, Exchange Rate and Trade in China](#)"
- 17:30 to 18:00 Discussion

18:00 to 20:15 **Session 6A - parallel session**  
 Chair: Andreea Stoian

- 18:00 to 18:15 Preparation time
- 18:15 to 18:30 Lanaras G., Tsalis T., Nikolaou E.I. "[A Framework to Evaluate Circular Economy Profile of Firms: An Evidence from Chemical Industry](#)"
- 18:30 to 18:45 Stoian, A., Iorgulescu, F. "[From sustainable development to sustainable finance](#)"
- 18:45 to 19:00 Siedschlag, I., Yan, W. "[Green Investments and Firm Performance](#)"

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- 19:00 to 19:15 Molinos-Senante, M. [“Urban sustainability in Chile: A composite indicator approach”](#)
- 19:15 to 19:30 Stauropoulou, A., Sardianou, E., Evangelinos, K., Nikolaou, I. [“SDGs and materiality assessment: Evidence from the European banking sector”](#)
- 19:30 to 19:45 Vargas-Hernández, J.G., [“Circular-green economy: Analysis based on the theory of resources and capabilities”](#)
- 19:45 to 20:15 Discussion
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- 18:00 to 20:15 **Session 6B - parallel session**  
 Chair: Eleni Theodoropoulou
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- 18:00 to 18:15 Preparation time
- 18:15 to 18:30 Walker, A.M., Opferkuch, K., Lindgreen, E.R., Simboli, A., Vermeulen, W.J.V., Raggi, A. [“The relevance of social sustainability when assessing circular economy practices: answers from academia and industry practitioners”](#)
- 18:30 to 18:45 Bogush, A., Maadawi, Z.E., Uğural, B.K., Nudi, L.B., Hassan, J.M., Erden, S., Jones, A., Greenfield, D. [“Inspiring the Young Generation with Circular Economy: EduKid-CE transnational project as a case study”](#)
- 18:45 to 19:00 Gerasimenko, D., Mazerolle-Castillo, E. [“Awareness-led Social lab on Circular Economy in Switzerland: Exploring Serendipity”](#)
- 19:00 to 19:15 Oberst, C., Henger, R., Voigtländer, M. [“Mobility and Housing - New perspectives for urban development”](#)
- 19:15 to 19:30 Turrado Domínguez, E., Hernández López, R., Fernández López, M.A. [“The management of cities: Circular Economy and Sustainability”](#)
- 19:30 to 19:45 Razza, F., Ladu, L., Morone, P. [“An Integrated Assessment Tool for assessing the sustainability of bio-based products”](#)
- 19:45 to 20:15 Discussion

**Thursday, July 02, 2020**

<b>10:00 to 12:15</b>	<b>Session 7</b> <b>Chair: Spyros Papaefthimiou</b>
10:00 to 10:15	Preparation time
10:15 to 10:30	Sotiropoulou, K.F., Vavatsikos, A.P. " <a href="#"><u>Wind Farms Suitability Analysis Using PROMETHEE II</u></a> "
10:30 to 10:45	Sakellariou, K.G., Konstandopoulos, A.G. " <a href="#"><u>Energy Storage in Circular Economy: Materials and reactor concepts for Thermochemical Energy Storage</u></a> "
10:45 to 11:00	Iordanidis, A., Asvesta A., Kapageridis, I., Vasileiadou, A., Koios, K. " <a href="#"><u>Reburning the coarse fraction of lignite bottom ash: Energy Source from Energy Waste</u></a> "
11:00 to 11:15	Vasileiadou, A., Zoras, S., Iordanidis, A. " <a href="#"><u>On the prediction of Gross Calorific Values of Municipal Solid Waste for Waste to-Energy applications</u></a> "
11:15 to 11:30	Kosmadakis, I., Elmasides, K., Koulinas, G., Tsagarakis, K.P. " <a href="#"><u>Cost and Energy Evaluation of PV-Battery Technologies in Greece</u></a> "
11:30 to 11:45	Ozturk, C., Yildisbazi, A., Arioz, Y. " <a href="#"><u>Blockchain and Sustainability</u></a> "
11:45 to 12:15	Discussion
<b>12:15 to 13:30</b>	<b>Session 8 (Keynote Presentations)</b> <b>Chair: Spyros Papaefthimiou</b>
12:15 to 12:30	Preparation time
12:30 to 13:00	Prof. Soteris Kalogirou, Cyprus University of Technology, Editor in Chief Renewable Energy " <a href="#"><u>Renewable Energy Systems: Current Status and Prospects?</u></a> "
13:00 to 13:30	Prof. Evangelos Voudrias, Democritus University of Thrace " <a href="#"><u>Management of healthcare waste from the Circular Economy point of view</u></a> "
<b>13:30 to 15:45</b>	<b>Session 9A - parallel session</b> <b>Chair: Michael Saidani</b>
13:30 to 13:45	Preparation time
13:45 to 14:00	Santos, B., A., De Jesus Oliveira, A.S., Rodrigues, L.B. " <a href="#"><u>Valorization of residues from the cassava starch industry: a review from the perspective of the Life Cycle Assessment and Circular Economy</u></a> "
14:00 to 14:15	Pearlmutter, D., Florentin, Y., Oannou, S., Ugolini, F., Gal, E. " <a href="#"><u>Development of sustainable biocomposite building materials for promoting the transition to a circular economy</u></a> "
14:15 to 14:30	De Jesus Oliveira, A.C., Rodrigues, L.B. " <a href="#"><u>Challenges and opportunities of Life Cycle Assessment in fruit processing</u></a> "

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- 14:30 to 14:45 Milousi, M., Souliotis, M., Papaefthimiou, S. “*Approaching Circular Economy in solar thermal technologies via the [application](#) of Life Cycle Assessment and Eco-design principles*”
- 14:45 to 15:00 Papadaki, D., Nikolaou, D.A., Tisov, A., Ritzen, M., Op’t Veld, P., Assimakopoulos, M.N. “*[Circularity in the built environment: a case study in an apartment in Athens](#)*”
- 15:00 to 15:15 Saidani, M., Yannou, B., Leroy, Y., Cluzel, F., Kim, H. “*[Multi-tool methodology to evaluate action levers to close-the-loop on critical materials - Application to precious metals used in catalytic converters](#)*”
- 15:15 to 15:45 Discussion

13:30 to 15:45 Session 9B - parallel session  
 Chair: Josep-Maria Arauzo-Carod

- 13:30 to 13:45 Preparation time
- 13:45 to 14:00 Arauzo-Carod, J.M. “*[Location determinants and sustainability: an exploratory approach](#)*”
- 14:00 to 14:15 Maraveas, C. “*[Environmental Sustainability of Plastic in Agriculture](#)*”
- 14:15 to 14:30 Karytsas, S., Vardopoulos, I., Theodoropoulou, E. “*[Adoption of microgeneration technologies in the residential sector: a comparison between two time periods](#)*”
- 14:30 to 14:45 Chaves, R., Raufflet, E. “*[Circular business model: understanding the concept and its applications](#)*”
- 14:45 to 15:00 Ghosal, B.B. “*[The Art of Selling the Circle - Popularizing Circularity with New-Age: Communication and Outreach](#)*”
- 15:00 to 15:15 Argyrou, M.D., Tsipouri, L.J. “*[Using Public Procurement of Innovation as an appropriate tool for the effective implementation of SSS for enhancing the CE: the case of Greece](#)*”
- 15:15 to 15:45 Discussion

15:45 to 18:15 Session 10A - parallel session  
 Chair: Ioanna Vasiliadou

- 15:45 to 16:00 Preparation time
- 16:00 to 16:15 Diamantis, V. “*[Anaerobic co-digestion of sewage sludge and lipids enables energy neutral municipal wastewater treatment facilities](#)*”
- 16:15 to 16:30 Campos, G.H., Mucha, A.P., Almeida, C.M.R., Calheiros, C.S.C. “*[Floating Wetland Islands as engineered green systems](#)*”
- 16:30 to 16:45 Vasiliadou, I., Tsagarakis, K.P. “*[Carbon footprint analysis of wastewater treatment plants](#)*”
- 16:45 to 17:00 Antão-Geraldes, A.M., Silva, F., Morais, T., Vale, P., Zavattieri, C., Albuquerque, A. “*[From the reservoir to the city: A contribution to promote the sustainable use of water](#)*”

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- 17:00 to 17:15 Palacios Miranda, H.D., Jaca C., [“Circular economy and industrial symbiosis development in Spain”](#)
- 17:15 to 17:30 Antão-Geraldes, A.M., Nogueira, B., Calheiros, C.S.C. [“Floating islands, a nature-based solution for the ecological integrity promotion in rivers? - The case of Fervença river \(NE Portugal\)”](#)
- 17:30 to 17:45 Preisner, M., Smol, M., Szoldrowska, D. [“Baltic Sea eutrophication in the Polish coastal zone: Analysis of wastewater and agricultural nutrient inputs”](#)
- 17:45 to 18:15 Discussion
- 15:45 to 18:15 Session 10B - parallel session  
 Chair: Iulia Siedschlag
- 15:45 to 16:00 Preparation time
- 16:00 to 16:15 Siedschlag, I., Yan, W. [“What Drives Firms’ Decisions to Spend on Environmental Protection?”](#)
- 16:15 to 16:30 Lemonakis, C., Petrakis, N. [“Impact of the European Central Bank’s monetary policy interventions on equity returns: the case of the Greek Banks”](#)
- 16:30 to 16:45 De Castro Leal, T.L.M., de Almeida Neto, J.A., Rodrigues, L.B. [“Sectoral agreements of reverse logistics as instruments to promote the circular economy and sustainable development”](#)
- 16:45 to 17:00 Sahni, G. [“Competitive advantage in circular economy business models via shared value”](#)
- 17:00 to 17:15 Lonca, G., Raufflet, E.B. [“Is material circularity enough to achieve environmental sustainability? Linking circular economy and planetary boundaries narratives”](#)
- 17:15 to 17:30 Mitoula, R., Economou, A. [“The contribution of primary production sector to sustainable development of the Greek regions”](#)
- 17:30 to 17:45 Calik, A. [“An Integrated Decision Model for Circular Supplier Selection under Pythagorean Environment”](#)
- 17:45 to 18:15 Discussion



**Friday, July 03, 2020**
**08:00 to 10:15** Session 11  
 Chair: Spyridon Ntougias

08:00 to 08:15 Preparation time

 08:15 to 08:30 Stefanakis, A. "[Using nature-based solutions for wastewater management and reuse in the circular water economy: examples from different industries](#)"

08:30 to 08:45 Ozcelik, N., Rodríguez, M., Lutter, S., Sartal, A. "A critical approach on agricultural water productivity assessment and policy development"

 08:45 to 09:00 Mavriou, Z., Alexandropoulou, I., Melidis, P., Karpouzas, D.G., Ntougias, S. "[Biotreatment of fludioxonil wastewater in a fixed-bed reactor under various hydraulic retention times](#)"

 09:00 to 09:15 Spyridonidis, A., Margellou, A., Vasiliadou, I.A., Triantafyllidis, K.S., Stamatelatou, K. "[Evaluation of biochemical methane potential from sunflower residues: effect of hydrothermal pretreatment](#)"

 09:15 to 09:30 Stamatelatou, K., Nikolaou, I., Martos, A., Rodriguez-Perez S., Esposito, G. "[Making value from wastes: valorization of open market wastes in Mediterranean countries](#)"

 09:30 to 09:45 Ervan, T., Küçüker, M.A., Cengiz, U. "[Preparation of Transparent Superhydrophilic Lactic Acid-TEOS Film via Sol-Gel Method for Reduction of Microalgae Adhesion on the Bioreactor Surface](#)"

09:45 to 10:15 Discussion

**10:15 to 11:50** Session 12 (Companies)  
 Chair: Paraschos Melidis

10:15 to 10:30 Preparation time

 10:30 to 10:45 Makios, A. "[From waste to value](#)"

10:45 to 11:00 Kafasis, P. "The Regional Integrated Waste Management System of Western Macedonia"

 11:00 to 11:15 Cominelli, M. "[Newsan IN - Triple Impact Initiative](#)"

 11:15 to 11:30 Desah B.V. "[Source-Separated Sanitation](#)"

11:30 to 11:50 Discussion

**11:50 to 12:30** Session 13 (Projects)  
 Chair: Paraschos Melidis

11:50 to 12:05 Lekawska-Andrinopoulou, L. "CIRC4Life A Circular Economy Approach for Lifecycles of Products and Services"

12:05 to 12:20 Sacco, P., Brozzi, R. "Digital tools for circular bio-based economy"

12:20 to 12:30 Discussion

**12:30 to 14:45** Session 14A - parallel session  
 Chair: Konstadinos Abeliotis

12:30 to 12:45 Preparation time

12:45 to 13:00 Gaidajis, G., Kakanis, I. ["Examining the potential carbon footprint reduction by implementing circular economy practices in a protected area with anthropogenic activities"](#)

13:00 to 13:15 Mathioudakis, D., Karageorgis, P., Papadopoulou, K., Lyberatos, G. ["Life Cycle Costing and Life Cycle Assessment of an innovative municipal food waste management circular economy concept based on separate collection and valorization"](#)

13:15 to 13:30 Yildizbasi, A. ["Barriers to a Circular Economy: A Case Study on Waste Electrical and Electronic Equipment \(WEEE\) Recycling in Turkey"](#)

13:30 to 13:45 Abeliotis, K., Moustakas, A., Sardianou, E., Lasaridi, K. ["Attitudes of Greek consumers on the planned obsolescence of electrical and electronic equipment"](#)

13:45 to 14:00 Pego, A. ["Circularity in Portugal, new business for new consumers"](#)

14:00 to 14:15 Di Lonardo, S., Giagnacovo, G. ["Selecting plant species within green infrastructure design for the energetic, environmental and social sustainability of cities"](#)

14:15 to 14:45 Discussion

**12:30 to 14:45** Session 14B - parallel session  
 Chair: Konstantinos Salonitis

12:30 to 12:45 Preparation time

12:45 to 13:00 Bonnet, J., Coll-Martinez, E., Renou-Maissant, P. ["Comparing Sustainable Development Performance: Evidence for French departments"](#)

13:00 to 13:15 Di Lonardo, S., Olivieri, S., Romani, A. ["Sustainability assessment of fiber nettle production in Central Italy through a life cycle approach"](#)

13:15 to 13:30 Gkadakis, D., Tsironis, L.K. ["Generator maintenance scheduling: A sustainability approach based on the optimal selection of maintenance instances"](#)

13:30 to 13:45 Pinto, L.C., Sousa, S., Valente, M. ["Forest bioenergy as a land and wildfire management tool: economic valuation under different informational contexts"](#)

13:45 to 14:00 Mitoula, R., Papavasileiou, A., Kaldis, P., Papagrigroriou, A. ["Co-working spaces in Greece after Covid 19 era"](#)

14:00 to 14:15 Okorie, O., Obi, M., Charnley, F., Salonitis, K. ["Circular economy implications of product cannibalisation and remanufacturing"](#)

14:15 to 14:45 Discussion

**14:45 to 17:00** Session 15A - parallel session  
 Chair: Dimitar Trajanov

14:45 to 15:00 Preparation time

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- 15:00 to 15:15 Kora, E., Kritikos, N., Antonopoulou, G., Ntaikou, I., Lyberatos, G. "[Continuous biohydrogen production from sugar-based wastewaters and exploitation of effluent for PHAs production](#)"
- 15:15 to 15:30 Mehmood, A., Viza, E., Bogush, A. "[Drivers and Barriers Towards Circular Economy in Agri Food Supply Chain](#)"
- 15:30 to 15:45 Leite, J.S., Pereira da Silva, M.L. "[The Importance of Wood in Production Cycle on Construction and Goods](#)"
- 15:45 to 16:00 Pournara, A., Mai, S., Kalavrouziotis, I., Sakkas, V. "[Circular Economy in the Ship breaking industry: Recovery of precious materials and opportunities of utilization by the industrial sector. Case study of steel](#)"
- 16:00 to 16:15 Milovanovikj, A., Tsagarakis, K.P., Kostakis, I., Trajanov, D. "[Exploratory approach to locate the causal effects of economic indicators on circularity in the European Union](#)"
- 16:15 to 16:30 Maia, L.R., Rodrigues, L.B. "[Global warming of baker's yeast production using sugarcane molasses](#)"
- 16:30 to 17:00 Discussion

14:45 to 17:00 **Session 15B - parallel session**  
 Chair: Roido Mitoula

- 14:45 to 15:00 Preparation time
- 15:00 to 15:15 Ribeiro, T., Calheiros, C., Vasconcelos, C. "[Sustainability and Geoethics: the GOAL Erasmus+ Project contribution to higher education](#)"
- 15:15 to 15:30 Rodrigues, L.B., Ferraz, S.P., De Almeida Neto, J.A. "[Life Cycle Assessment in Environmental Management of Egg Production](#)"
- 15:30 to 15:45 Kone, A.C., Buke, T. "[Energy Indicators for Sustainable Development: Turkey View](#)"
- 15:45 to 16:00 Bhandari, B. "[Industry 4.0 Enabled Sustainable Manufacturing](#)"
- 16:00 to 16:15 Rodrigues, L.B., Carvalho, L.S., Willers, C.D., De Almeida Neto, J.A. "[Environmental Assessment in Conventional Semi-Intensive Brazilian Milk Production](#)"
- 16:15 to 16:30 Anthopoulos, L. "[Energy efficiency assessment models from an AI and big data perspectives: a review](#)"
- 16:30 to 17:00 Discussion

17:00 to 19:30 **Session 16**  
 Chair: Konstantinos Christoforidis

- 17:00 to 17:15 Preparation time
- 17:15 to 17:30 Arioz, Y., Yildizbasi, A., Ozturk, C. "[Closed-Loop Recycling of Electronic Cards Contributing to Sustainability: A Case Study on a Circular Economy Perspective](#)"
- 17:30 to 17:45 Soto Bermudez, T., Stumpf, L., Schöggel, J.P., Baumgartner, R.J. "[Organizational requirements for implementing the circular economy in the European plastic packaging industry](#)"

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- 17:45 to 18:00 Skouloudis A., Tsalis T., Nikolaou I., Evangelinos K. [“Small & medium-sized enterprises, organizational resilience capacity and flash floods: Insights from a literature review”](#)
- 18:00 to 18:15 Christoforidis, K. [“Carbon management through Carbon recycling: production of high-added-value chemicals”](#)
- 18:15 to 18:30 Medeiros, D.L., Santos Soares, M.F., Queiroz, L.M., Kiperstok, A. [“Nutrient recovery from human urine: an economic analysis of logistics with alkaline, evaporation and reverse osmosis treatments”](#)
- 18:30 to 18:45 Maksimović, A. [“Trends in sustainability reporting in the period 2010-2020”](#)
- 18:45 to 19:00 Kostakis I., Tsagarakis, K.P. [“The role of socio-demographic determinants on materials recycling and circularity in Europe: An empirical investigation”](#)
- 19:00 to 19:30 Discussion
- 19:30 to 19:45 Closing the symposium

**Final Program**

<b>CET</b>	<b>New York</b>	<b>Sao Paulo</b>	<b>Athens</b>	<b>Shanghai</b>	<b>Sidney</b>		
<b>Start</b>	<b>time</b>	<b>time</b>	<b>time</b>	<b>time</b>	<b>time</b>		
<b>time</b>	-6	-5	1	6	8	<b>July 1</b>	
<b>8:00</b>	2:00	3:00	9:00	14:00	16:00	<b>Session 1</b>	
<b>9:35</b>	3:35	4:35	10:35	15:35	17:35	<b>Session 2</b>	
<b>11:50</b>	5:50	6:50	12:50	17:50	19:50	<b>Session 3</b>	
<b>13:00</b>	7:00	8:00	14:00	19:00	21:00	<b>Session 4A</b>	<b>Session 4B</b>
<b>15:15</b>	9:15	10:15	16:15	21:15	23:15	<b>Session 5</b>	
<b>18:00</b>	12:00	13:00	19:00	0:00	2:00	<b>Session 6A</b>	<b>Session 6B</b>
<b>July 2</b>							
<b>10:00</b>	4:00	5:00	11:00	16:00	18:00	<b>Session 7</b>	
<b>12:15</b>	6:15	7:15	13:15	18:15	20:15	<b>Session 8</b>	
<b>13:30</b>	7:30	8:30	14:30	19:30	21:30	<b>Session 9A</b>	<b>Session 9B</b>
<b>15:45</b>	9:45	10:45	16:45	21:45	23:45	<b>Session 10A</b>	<b>Session 10B</b>
<b>July 3</b>							
<b>8:00</b>	2:00	3:00	9:00	14:00	16:00	<b>Session 11</b>	
<b>10:15</b>	4:15	5:15	11:15	16:15	18:15	<b>Session 12</b>	
<b>11:50</b>	5:50	6:50	12:50	17:50	19:50	<b>Session 13</b>	
<b>12:30</b>	6:30	7:30	13:30	18:30	20:30	<b>Session 14A</b>	<b>Session 14B</b>
<b>14:45</b>	8:45	9:45	15:45	20:45	22:45	<b>Session 15A</b>	<b>Session 15B</b>
<b>17:00</b>	11:00	12:00	18:00	23:00	1:00	<b>Session 16</b>	

## Supporting Partner



## Academic Partner

