



Hochschule für Angewandte
Wissenschaften Hamburg
Hamburg University of Applied Sciences



WORLD SUSTAINABLE
DEVELOPMENT
RESEARCH & TRANSFER CENTRE
TOWARD A MORE SUSTAINABLE AND HEALTHIER WORLD



THIRD WORLD SYMPOSIUM ON SUSTAINABILITY SCIENCE AND RESEARCH

8th April 2021- ON-LINE

PROGRAMME





ORGANISING TEAM

Chairpersons

- Prof. Walter Leal (PhD, DSc, DPhil, DL, DLitt) Manchester Metropolitan University (UK) and Hamburg University of Applied Sciences (Germany)
- Prof. Salvador Ruiz de Maya (PhD) University of Murcia (Spain)

Vice-chairperson

- Prof. Longinos Marin (PhD) University of Murcia (Spain)

Technical Committee

Prof. Lucas V Ávila, University of Santa Maria, Brazil
Prof. Luciana Brandli, University of Passo Fundo, Brazil
Prof. Roberto Bichueti, University of Santa Maria, Brazil
Prof. Manuel Soto Castiñeira, University of A Coruña, Spain
Luana Damke, University of Santa Maria, Brazil
Dr. Maria del Carmen Alarcón del Amo, University of Murcia, Spain
Dr. Domingo Javier Calvo Dopico, University of A Coruña, Spain
Rodrigo Favarin, University of Santa Maria, Brazil
Barbara Fritzen Gomes, University of Passo Fundo, Brazil
Kamila Frizzo, University of Santa Maria, Brazil
Dr. Andrea Gatto, University of Greenwich, UK
Prof. Clandia Maffini Gomes, Santa Maria Federal University, Brazil
Prof. Jordana Marques Kneipp, University of Santa Maria, Brazil
Samara Neiva, Federal University of Santa Catarina, Brazil
Dr. Amanda Lange Salvia, University of Passo Fundo, Brazil
Dr. Mihaela Sima, Institute of Geography, Romania

CONTACT PERSONS FOR TECHNICAL ISSUES

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PROGRAMME – Please note all times are Central European Time (CET)

08:30-08:40- Opening- Walter Leal, HAW Hamburg, Germany & Salvador Ruiz de Maya, University of Murcia, Spain

08:40-09:00 - Plenary presentation 1- Net Zero: Working with the next generation – Reflections on the strategy for and delivery of the 2021 Newcastle upon Tyne Student Climate Change Summit & Net Zero Student Innovation Challenge
Katie Ridley
Northumbria University, UK

09:00-09:20- Plenary presentation 2- In times of uncertainty: Advancing university sustainability model in Hong Kong
Tamara Savelyeva
The Hong Kong Institute of Education for Sustainable Development, Hong Kong

09:20-09:30- Questions

09:30-09:45- Break

09:45:10:45- Session 1

Breakout Room 1A

Moderator: Dr. Amanda Lange Salvia

– Please note all times are Central European Time (CET)

9:45 - 10:00: Academic motivation and previous academic achievement in higher education
Carolina Rodríguez-Llorente, Tania Vieites, Isabel Piñeiro, Rocío González-Suárez
Universidade da Coruña, Spain

10:00 - 10:15: Towards nature-immersive pedagogy of place in outdoor education
Johannes M. Luetz, Christian Heritage College (CHC), Brisbane, Australia; University of New South Wales (UNSW), Sydney, Australia; University of the Sunshine Coast (USC), Maroochydore, Australia

10:15 - 10:30: Geospatial ecological footprint calculators through participatory processes
Francisco-Alberto Varela-García, Francisco-Alberto Varela-García, Manuel Soto, Domingo Javier Calvo Dopico, Verónica Torrijos, Jorge López Fernández
Universidade da Coruña, Spain

10:30- 10:45: Discussion



Breakout Room 2A

Moderator: Dr. Jelena Barbir

– **Please note all times are Central European Time (CET)**

9:45 - 10:00: Teaching sustainability of higher education in Indonesia in response to COVID-19: problems and strategy, Indonesia

Warjio Lemane

Universitas Sumatera utara (USU), Medan, Indonesia

10:00 - 10:15: Challenges in Effective Education of Sustainability: A Framework for Aligning Curriculum and Content to the Contextual Need

Shiv K. Tripathi

IIHMR University, Jaipur, India

10:15 - 10:30: The key role of alliances and multi-stakeholder collaboration for climate action implementation within higher education institutions: the Chilean experience

Claudia Mac-lean, Maryon Urbina, Óscar Mercado, Pablo Yañez, Cecilia Campos Marín, Cristopher Toledo, Juan Carlos Aravena, Rodolfo Sapiains

University of Magallanes, Chile

10:30- 10:45: Discussion

Breakout Room 3A

Moderator: Franziska Wolf

– **Please note all times are Central European Time (CET)**

9:45 - 10:00: Connecting international sustainability research to medical education studies in Oman

Hashim Al Musawi Sadiq Hussain, Omar Al Rawas

Sultan Qaboos University Hospital, Oman

10:00 - 10:15: More “fair” trade for global sustainable development

Katarzyna Cichos, Cardinal Stefan Wyszyński

University in Warsaw, Poland

10:15 - 10:30: The integration of Sustainability for the development of two Geoparks - UN in Southern Brazil

Lucas Veiga Avila and Rudiney Soares Pereira,

Federal University of Santa Maria, Brazil



10:30 - 10:45: Discussion

Breakout Room 4A

Moderator: Dr. Mihaela Sima

– Please note all times are Central European Time (CET)

9:45 - 10:00: Interconnected principles for cultivating higher education student's learning at the interface of science and society

Valentina Tassone

Wageningen University, the Netherlands

10:00 - 10:15: Healthy ageing studies and sustainability science research

Hashim Al-Musawi, Sadiq Hussain

University Hospital Bristol and Weston NHS Trust, Bristol, UK

10:15 - 10:30: How does educational research face a future marked by climate emergency? Analysis of recent scientific production

Mercedes Varela

University of A Coruña, Spain

10:30 - 10:45: People have the power. A comparative analysis of electricity production across the Nordic-Baltic region – renewables transition, power grids and communities empowerment

Andrea Gatto, Elkhani Richard Sadik-Zada

Natural Resources Institute - University of Greenwich, UK

10:45-11:00- Break

11:00-12.00- Session 2

Breakout Room 1B

Moderator: Dr. Andrea Gatto

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11:00 - 11:15: Climate Change And Energy In The Azores Context

Fernanda Carvalho, Maria Meirelles, Diamantino Henriques, Patrícia Navarro

Instituto Português do Mar e da Atmosfera I.P., Portugal

11:15 - 11:30: Moving from conventional plastics to sustainable solutions – assessing human willingness to change current practices

Jelena Barbir, Maren Theresa Christin Fendt, Amanda Salvia Lange, Barbara Fritzen, Caroline Paul Kanjookaran, Walter Leal Filho

Hamburg University of Applied Sciences, Germany



11:30 - 11:45: Using a PBL approach to develop sustainability competencies in higher education students

Bento Cavadas, Elisabete Linhares
Polytechnic Institute of Santarém, Portugal

11:45 - 12:00: Transforming Universities for a Changing Climate: the project CLIMATE-U

Luciana L Brandli and Amanda Salvia,
University of Passo Fundo, Brazil

Breakout Room 2B

Moderator: Prof. Salvador Ruiz de Maya

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11:00 - 11:15: Sustainable practices toward thriving: First reflections under an accountability perspective

Sara Moggi
Università degli Studi di Verona, Italy

11:15 - 11:30: Ambient air quality within urban communities of South Africa

Newton R. Matandirotya, Zamahlase Sibisi, Dirk P. Cilliers and Roloef P. Burger
North-West University, South Africa

11:30 - 11:45: Challenges and Opportunities for Seaports Towards Future Sustainability: The UK's North East Smart Ports Testbed Case Study

Matteo Conti, Marco Zilveti, Richard Kotter
Northumbria University, UK

11:45 - 12:00: Reviewing the role of community involvement in the elaboration of a state water resources plan: The case of Urussanga River Basin

Celso Lopes de Albuquerque Junior, Samara da Silva Neiva
University of Southern of Santa Catarina, Brazil

Breakout Room 3B

Moderator: Prof. Longinos Marin

– Please note all times are Central European Time (CET)

11:00 - 11:15: The nonlinear dynamics of culture: prospects for sustainable development

Martysiuk Pavel
The Minsk branch of Plekhanov Russian University of Economics, Belarus

11:15 - 11:30: Challenging transformation for universities?



Silke Rühmland, Hartwig Haase, Julius Brinken
Otto-von-Guericke-University Magdeburg, Germany

11:30 - 11:45: Methodology for selecting agile methods in transdisciplinary sustainability projects
Andrea Heilmann, Rebecca Spaunhorst, Felix Schulz
Harz University of Applied Sciences, Germany

11:45 - 12:00: Mobility carbon footprint of the University of A Coruña, Spain
José-Benito Pérez-López, Alfonso Orro, Margarita Novales, Francisco-Alberto Varela-García, Verónica Torrijos, Manuel Soto
Universidade da Coruña, Spain

Breakout Room 4B

Moderator: Barbara Fritzen

– **Please note all times are Central European Time (CET)**

11:00 - 11:15: Towards forests' sustainability and multifunctionality: are Portuguese forests on the right track?

Castro, P, Follmann, F, Viana, H, Gaião, D, Santos-Silva, C, Castro, S, Canhoto, C, Loureiro, J, Alves, F, Alves da Silva, A., Gonçalves, A.L, Freitas, H, Sousa, P, Alves, J
University of Coimbra, Portugal

11:15 - 11:30: Education for sustainable development - Is there a way to catch up with the front runners?

Irja Malmio, Hans Liwång
Defence University of Stockholm, Sweden

11:30 - 11:45: Open Eco-Innovation Research Landscape in the Industrial Sector: A Systematic Review and Future Outlook

Maruf Sanni, Elena Verdolini
European Institute on Economics and the Environment, Italy

11:45 - 12:00: Challenges and opportunities for scaling up global upcycling towards sustainable production and consumption: a literature review

Kyungeun Sung, Amal Abuzeinab
De Montfort University, UK

12:00-13:00- Lunch break

13:00-13:20- Plenary presentation 3- Climate action from interdisciplinary university communities. Challenges of sustainability training in Universities of Mexico

Lorena del Carmen, Álvarez-Castañón, University of Guanajuato, Mexico

13:20-13:40- Plenary presentation 4- The Digital Introduction of the SDGs into Higher Education

Jennifer Pohlmann, HAW Hamburg, Germany



Breakout Room 1C

Moderator: Prof. Manuel Soto Castiñeira

– **Please note all times are Central European Time (CET)**

13:40 - 13:55: Governance to sustainability in higher education institutions: a systematic review aiming the implementation of green campus

Paulo Guilherme Fuchs, Elaisa Ana Stocco Buhr, Ana Regina de Aguiar Dutra, José Baltazar Salgueirinho Osório de Andrade Guerra

Instituto Federal de Santa Catarina, Universidade do Sul de Santa Catarina, Brazil

13:55 - 14:10: Relating the metrics and indicators of the Living Building Challenge and urban ecosystem services for regenerative design, Clara Barbosa Monteiro, Clarissa Ferreira Albrecht
Federal University of Viçosa, Brazil

14:10 - 14:25: Comparative study of the economic-environmental performance of activated alkali cement and Portland cement using LCA and LCC

Andreza Frare, Renata Degraf Miara, Marcell Mariano Corrêa Maceno

Federal University of Parana, Brazil

14:25 - 14:40: The Initiative Democratia-Aqua-Technica - using a cross-media approach for developing sustainable projects

Ulrike Gayh, Maja Turk-Seculic, Benjamin Zierock

SRH University Heidelberg, Germany

Breakout Room 2C

Moderator: Samara Neiva

– **Please note all times are Central European Time (CET)**

13:40 - 13:55: Institutional Pressures On Sustainable Development Education In Business Management Undergraduate Courses

Mateus Santos De Freitas-Martins

Universidade Federal do Paraná, Brazil

13:55 - 14:10: The participation of Brazilian universities in sustainability rankings

Noah Emanuel Brito Teles, Bárbara Galleli Dias, Mateus Santos de Freitas-Martins

Brazil



14:10 - 14:25: The sustainability at the University of Florence: the Green Office and the Science Shop experience

Giovanna Pacini, Sara Falisini, Ugo Bardi, Franco Bagnoli
University of Florence

Breakout Room 3C

Moderator: Dr. Andrea Gatto

– **Please note all times are Central European Time (CET)**

13:40 - 13:55: Reflective Thinking in Business Courses: Validation of an Instrument to Evaluate Reflection

Rodrigo Libanez Melan, Thais Accioly Baccaro, Saulo Fabiano Amâncio-Vieira
State University of Londrina, Parana, Brazil

13:55 - 14:10: Future research trends on the Water-Energy-Food nexus approach: A review of definition, methods, and metrics

Fernando Caixeta, Pedro Saraiva, Fausto Freire, Federal Institute of Education, Science and Technology of Triângulo Mineiro, Brazil
University of Coimbra, Portugal

14:10 - 14:25: The contribution of the circular economy to the fulfillment of the 2030 Agenda in Higher Education Institutions

Norma Faitani, S. Luciana Galvan, and Raquel O. Bielsa
Universidad Nacional de General Sarmiento, Argentina

14:25 - 14:40: Practical aspects of sustainability and its relationship with the valorization of coffee grounds generated in a Brazilian educational institution

Isael Colonna Ribeiro, Jacqueline Rogéria Bringhenti, Poliana Daré Zampirolli Pires, Adriana Marcia Nicolau Korres
Federal Institute of Education, Science and Technology of Espirito Santo, Brazil

14:40-15:00- Break

15:00-16:00- Session 4

Breakout Room 1D

Moderator: Prof. Luciana Brandli

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15:00 - 15:15: Some Best Practices of U.S. Universities Sustainability Offices

Maria A. Petrova and Olivia Kleier
Georgetown University, USA



15:15 - 15:30: Waste generation and management at the University of A Coruña
Verónica Torrijos, Manuel Soto
Universidade da Coruña, Spain

15:30 - 15:45: Neighborhood Sustainability Assessment (NSA) Tools: A systematic review on how to choose the best analysis tool
Chimanski, R. T., Maceno, M. M. C, Chopra, S. S.
Federal University of Parana, Brazil

15:45 - 16:00: Sustainability and transformational Learning: The education for classroom space as disruption
Robert Vanwysberghe
University of British Columbia, Canada

Breakout Room 2D

Moderator: Barbara Fritzen

– **Please note all times are Central European Time (CET)**

15:00 - 15:15: Extensionist Actions For Environment: Multicampi Brazilian Public Hei Case Study
Aline Guimarães Monteiro Trigo, Bauer de Oliveira Bernardes, Luane da Costa Pinto Lins Fragoso, Nelson Mendes Cordeiro, Wanderley Freitas Lemos, Wladimir Henriques Motta, José Aires Trigo, Úrsula Maruyama
Brazil

15:15 - 15:30: The commitment of Brazilian public universities to the sustainable development goals
Carolina Grano, Vanderli Correia Prieto, José Carlos Curvelo Santana
Federal University of ABC (UFABC), Brazil

15:30 - 15:45: Sustainability indicators related to organic waste for educational institutions: A systematic review
Yasmin Coelho de Freitas, Fernanda Aparecida Veronez, Adriana Marcia Nicolau Korres
Federal Institute of Education, Science and Technology of Espirito Santo, Brazil

15:45 - 16:00: Organizational Learning Towards Sustainability In Higher Education Institutions: A Brazilian case study
Vanessa de Campos Junges, Simone Alves Pacheco de Campos, Rubia Goi Becker
Universidade Federal de Santa Maria, Brazil

Breakout Room 3D

Moderator: Samara Neiva

– **Please note all times are Central European Time (CET)**



15:00 - 15:15: Environmental impact of the Intermunicipal Consortium of Multifunctional Management (CITEGEM) on the source of the Eerval Novo stream

Rafael Burlani

Universidade do Vale do Itajaí, Brazil

15:15 - 15:30: The gaps for future studies in life cycle analysis (LCA) of single-use plastic bags: A literature review

Matheus Tavares Lacerda, Marcell Mariano Corrêa Maceno

Federal University of Parana, Brazil

15:30 - 15:45: SDG 6 and Industry 4.0: Development of a performance prediction model by Artificial Neural Networks applied to water treatment plants, located in the state of Espírito Santo, Brazil, aiming at the sustainability in their operations

Dominique Nápoli Caliari, Dejanyne Paiva Zamprogno, Juscelino Alves Henriques, Mariângela Dutra de Oliveira

Federal Institute of Espírito Santo, Brazil

15:45 - 16:00: Comparative analysis of environmental impacts between two structural methods: a Brazilian case study

Renata Degraf Miara , Andreza Frare, Marcell Mariano Corrêa Maceno

Federal University of Paraná - Curitiba - Brazil, Latin America

16:00-16:30- Final plenary and follow-up, Walter Leal, HAW Hamburg, Germany

16:30- End of the Symposium