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ESSR
EUROPEAN SCHOOL
OF SUSTAINABILITY SCIENCE AND RESEARCH



Hochschule für Angewandte
Wissenschaften Hamburg
Hamburg University of Applied Sciences



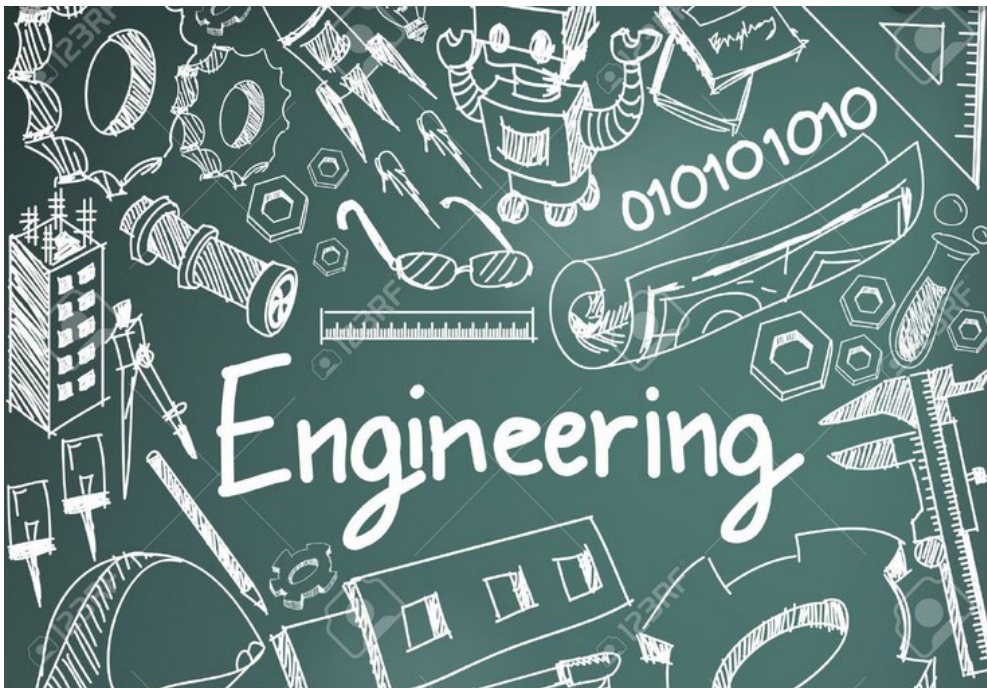
SYMPOSIUM

Sustainable development and engineering education: towards transformative approaches in teaching, research and student engagement on matters related to sustainable development in engineering programmes

Técnico - Universidade de Lisboa

Portugal

Tuesday 27th- Wednesday 28th October 2020





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/// BACKGROUND

The field of engineering is a rapidly growing one and round the world, hundreds of engineering schools are offering outstanding courses and study programmes on matters related to sustainable development. As engineering schools adjust their approaches and study programmes to take into account sustainable development, there is a perceived need for a dialogue on innovative methods, initiatives and tools which may allow engineering schools to fully take advantage of the many opportunities a focus on sustainable development offers to them.

It is on the basis of the perceived need to address this gap, that the Symposium **“Sustainable development and engineering education: towards transformative approaches in teaching, research and student engagement on matters related to sustainable development in engineering programmes”** is being organised by the „European School of Sustainability Science and Research (ESSSR)“ <https://esssr.eu/> and the Inter-University Sustainable Development Research Programme (IUSDRP) <https://www.haw-hamburg.de/ftz-nk/programme/iusdrp.html>, a world leader on the organisation of training and information events on sustainable development. The event will be held at the Técnico (Instituto Superior Técnico) of the University of Lisbon, Portugal, on 27th- 28th October 2020.

Promoting participatory and inclusive approaches to sustainability, towards the use of engineering education as a basis for a broader understanding and cross-disciplinary collaboration, we are also interested to explore innovative means via which sustainability can be included as part of both teaching and research programmes on engineering education.





The Symposium will bring together lecturers, researchers and practitioners in the field of engineering education, representing sustainability in this key area.

The Symposium is being organised by the European School of Sustainability Science and Research, the Inter-University Sustainable Development Research Programme, the World Sustainable Development Research and Training Centre and the Instituto Superior Técnico of the University of Lisbon, Portugal.

/// AIMS

The aims of the Symposium are as follows:

- i. to provide teaching and research staff at universities with an opportunity to display and present their works (i.e. curriculum innovation, empirical work, activities, case studies, practical projects) on engineering education and sustainable development;
- ii. to foster the exchange of information, ideas and experiences acquired in the execution of teaching and research on engineering education and sustainable development, especially successful initiatives and good practice;
- iii. to network the participants and provide a platform so they can explore possibilities for further cooperation.

The Symposium will focus on the means to integrate, promote or otherwise catalyse the implementation of engineering education and sustainable development, assisting universities in their efforts to implement the Agenda 2030 Sustainable Development Goals (SDGs), and will contribute to the further development of this central topic.

The Symposium is a further event organised as part of the “**Accelerating Sustainable Development Series**”, which consists of a series of key gatherings on the subject matter of sustainable development. Other events have been organised with a focus on research (Turin, July 2019), teaching (Stockholm, September 2019) and on campus activities (Spain, 2nd-3rd December 2019).

Last but not least, a further aim of the event will be to document and disseminate the wealth of experiences on implementing sustainability on business education available today. To this purpose, papers which have been accepted, presented and discussed at the Symposium may be submitted for a **special issue** of the **International Journal of Sustainability in Higher Education**, published by Emerald Publishing (UK), which is the world’s leading journal on sustainability in a higher education context: <http://www.emeraldgrouppublishing.com/ijshe.htm>.





/// PROFILE OF PARTICIPANTS

Delegates attending the Symposium will come from a cross-sectoral range of areas. These are:

- i. research and teaching staff
- ii. student groups;
- iii. members of university administrations;
- iv. project officers and consultants;
- v. other people interested in the field.

It is believed that this wide range of participants will help to outline the need for integrated approaches towards sustainability and engineering education, promote cross-sectorial collaboration and hence contribute towards advancing the cause of integrating sustainability in engineering education even further.

/// STRUCTURE OF THE EVENT

The Symposium will be organised around two main strands:

Strand 1: the posters

Participating universities will be able to put-up displays describing their works, research and teaching projects, and to distribute the relevant information to the participants.

Strand 2: the presentations

A set of presentations will be organised, divided into sections. The programme will be structured when all abstracts have been submitted.

The events organised as part of the “**Accelerating Sustainable Development Series**” are high level events, which count on a strong participation of interested colleagues and vibrant discussions. Therefore, it is important to note that the submission of papers to the event and their subsequent consideration for the **International Journal of Sustainability in Higher Education** are subject to the following condition: only papers from researchers who have registered, attended the event and presented and discussed their works will be considered for the special issue. Submissions which do not meet this criteria, will not be considered.

/// SCHEDULE

The Symposium will be held at the Instituto Superior Técnico of the University of Lisbon, Portugal, on 27th- 28th October 2020. The schedule is as follows:





Tuesday 27th October 2020

09:00-09:30- Arrival and set-up of displays
09:30-10:00- Welcome
10:00-11:00- Presentations and discussions
11:00-11:30 – Break
11:30-13:00- Presentations and discussions
13:00-14:00- Lunch
14:00-15:30- Presentations and discussions
15:30-16:00 – Break
16:00-17:30- Presentations and discussions
Evening: free

Wednesday 28th October 2020

09:00-11:00- Presentations and discussions
11:00-11:30 – Break
11:30-12:30- Presentations and discussions
12:30-13:30- Lunch
13:30-15:30- Presentations and discussions
15:30-16:00- Final session and close of the event

In order to ensure an efficient use of the time, delegates are kindly asked to organise their travel in a way that allows them to travel back after 17:30 on 28th October 2020, so they do not miss the final discussion.

/// DEADLINES

Deadline for submission of abstracts: 15th March 2020

Deadline for submission of papers: 20th June 2020

Deadline for registrations: 30th July 2020

Since the special issue is expected to be produced soon after the Symposium, the deadlines need to be followed.

/// THE VENUE

The event will be held at the Instituto Superior Técnico of the University of Lisbon, Portugal. The Instituto Superior Técnico is the largest and most prestigious school of Engineering, Science & Technology and Architecture in Portugal.

It is part of the Universidade de Lisboa and was founded in 1911. The school develops strong research and development activities with the highest international standards thanks to a large degree of scientific and financial autonomy. The Institute offers 18 undergraduates, 33 masters, and 31 doctoral programmes at ten Departments and an Autonomous Section responsible for teaching the undergraduate and postgraduate programmes. It hosts approximately 11.000 students. There is a wide selection of hotels in Lisbon to choose from. Details on accommodation will be shared with the registered delegates.



/// FEES AND CHARGES

A fee of € 235 will be charged to delegates to offset the preparation costs. The fee includes **coffee breaks and lunches on 27th-28th October 2020**. Registrations fees may be refunded (with a 50% processing charge) in case of cancellations until one month before the event. After that date, no refunds are possible.

/// REGISTRATION AND CONDITIONS OF PARTICIPATION

Registrations are now open and are possible until 30th June 10th 2020. Regrettably, registrations after the deadline may not be possible. Since the space for displays and the time for presentations is limited, **delegates are advised to submit their abstracts and register as soon as possible**. The organisers will notify any interested delegate or organisation in case there are any limitations with time for presentations, or in respect of space for displays. Registered delegates will then receive further details on the payment of the fees and updated information on the preparations for the event. The decision as to which papers will be accepted for presentation will be taken by the Chairpersons, following consultation with the organising committee.

/// ORGANISERS

- European School of Sustainability Science and Research
- Inter-University Sustainable Development Research Programme
- Instituto Superior Técnico of the University of Lisbon, Portugal
- Hamburg University of Applied Sciences, Germany

/// CHAIRPERSON

- Prof. Walter Leal (BSc, PhD, DSc, DPhil, DL, DLitt), European School of Sustainability Science and Research, HAW Hamburg, Germany
- Prof. Manuel Duarte Pinheiro, Instituto Superior Técnico of the University of Lisbon, Portugal



/// CONTACT POINT FOR SCIENTIFIC INPUTS, STRATEGIC COOPERATION AND GUIDANCE ON PUBLICATION

All questions related to scientific inputs (e.g. abstracts, papers) and strategic partnerships, as well as the special issue of the journal, should be sent to:

Professor Walter Leal
E-mail: iusdrp@ls.haw-hamburg.de

/// CONFERENCE ADMINISTRATOR AND CONTACT POINT FOR FURTHER DETAILS

All questions related to registrations should be sent to:

Dr. Mihaela Sima
Inter-University Sustainable Development Research Programme
E-mail: simamik@yahoo.com

/// HOW TO SUBMIT AN ABSTRACT

An abstract should be up to 200 words, it should describe the rationale and aims of the paper, and some of its results. General descriptions of broad contexts should be avoided. The full contact details about the author(s) need to be provided. Abstracts should be written in the third person and not in the first or second one (e.g. I, me, or my paper). Please see below for a sample abstract. Authors whose abstracts have been accepted, will receive further details about how to submit their full papers, and further logistical information. They should be sent to: Dr. Mihaela Sima
Inter-University Sustainable Development Research Programme,
E-mail: simamik@yahoo.com



Sample abstract

Some developments on education for sustainable development in higher education institutions

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Abstract

The implementation of sustainable development in higher education is a global trend. Yet, the intensity and the depth with which higher education institutions are taking on the challenge of sustainability, significantly differs.

This paper presents a global analysis about how higher education institutions are including sustainability issues in the different areas (e.g. teaching, research, outreach and institutional management) and describes the progress made in this field during the last 10 years. A special emphasis is given to the problems and barriers which prevent developments in respect of the integration of sustainability issues in higher education. Finally, some concrete steps which may be undertaken in order to allow universities to integrate sustainable development in their activities but also in regional development, are outlined. This paper will be useful to anyone interested in the different levels of emphasis given to sustainable development at higher education institutions across the world.





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Tuesday 27th- Wednesday 28th October 2020

PLEASE COMPLETE, SCAN AND E-MAIL THIS FORM TO:

E-mail: simamik@yahoo.com

/// REGISTRATION FORM

1. Surname: _____
2. First Name: _____
3. Title (Prof., Dr. Mr, Ms, etc): _____
4. Institution: _____
5. Address: _____
6. Telephone (please include local code): _____
7. Fax (please include local code): _____
8. E-mail: _____
9. You intend to participate by means of: () Presentation () Display () both
10. Title of presentation: _____
11. Title of display: _____
13. Do you have any dietary requirements? () Yes () No
If so, please specify:

A fee of € 235 will be charged to you via invoice, upon receiving your application. Registrations fees may be refunded (with a 50% processing charge) in case of cancellations up to 30 days before the event. After that date, no refunds are possible.

THANK YOU FOR YOUR REGISTRATION.

