



European Society for Engineering Education
Europäische Gesellschaft für Ingenieur-Ausbildung
Société Européenne pour la Formation des Ingénieurs

News@SEFI

The SEFI Bulletin

Issue 6-7/ Summer 2014



Educating Engineers for Global competitiveness

15-19 September 2014

Birmingham (UK)

Incorporating the UK Biennial EE Conference

www.sefi2014.com

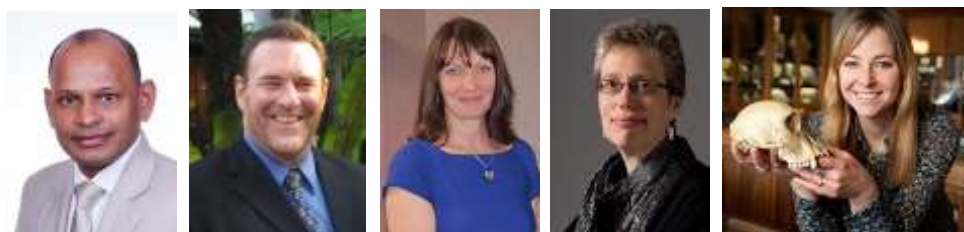


Monday 15th - Friday 19th September
Birmingham 2014
Incorporating the Biennial EE Conference

PROGRAMME OVERVIEW

KEYNOTE SPEAKERS

Amongst the plenary speakers are **Prof. Dr. Ramakrishna, National University of Singapore**, **Dr. Willey, Sydney University of Technology**, **Dr. Scurlock, Primary Engineer**, **Dr. Altman, University of Washington** and **Prof. Roberts, University of Birmingham**. A series of high rank invited presentations that, further to the numerous papers to be presented, will for sure constitute the basis for some interesting reflections and discussions.



(From left to right Prof. Dr. Ramakrishna, Dr. Willey, Dr. Scurlock, Dr. Altman, and Prof. Roberts.)

WORKSHOPS

Monday 15th September

SEFI Working Groups and IDEA Workshop

Tuesday 16th September

09.30 - 11.00: *Digilent*

[Hands-On Learning with All-in-One Portable Electronics Lab](#)

15.00 - 16.00: *Stephen Hundley*

[The Attributes of a Global Engineer Project: Implications for Students, Educators, and Employers](#)

Wednesday 17th September

11.00 - 12.30: *Owen McAree Connecting*

[MATLAB and Simulink to Arduino, Lego Mindstorms and Raspberry Pi](#)

11.00 - 12.30: *National Instruments Workshop*

11.00 - 17.00: *EEDC workshop*

14.30 - 15.30: *Anne Nortcliffe*

[Closing the BME attainment gap](#)

16.00 - 17.00: *Robin Clark, Jane Andrews*

Discipline Based Education Research

Thursday 18th September

11.30 - 13.00: *National Instruments Workshop*

10.00 - 11.00: *Stefano Perini*

[ManuSkills](#)

11.30 - 13.00: *Owen McAree*

[Connecting MATLAB and Simulink to Arduino, Lego Mindstorms and Raspberry Pi](#)

15.00 - 16.00: *Robin Clark*

[Project Partner Session](#)

SEFI General Assembly and Administrative Council Meetings

Tuesday 16th September 2014

10.00 SEFI Administrative Council meeting with National Correspondents and WGs Chairs , University of Birmingham, Edgbaston Campus, Birmingham.

Friday 19th September 2014

09.00 SEFI General Assembly, Aston University, Aston Triangle, Birmingham

12.00 SEFI Administrative Council

For further and constantly updated information please consult: www.sefi2014.com

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SEFI offers its gratitude for the continuous support of its Corporate Partners



OBITUARY

We are very sad to inform our members and friends that IFEEES Elected-President, **Prof. Duncan McKenzie Fraser** (68) passed away on Saturday 19th July.

Duncan has been involved in engineering education at the University of Cape Town (UCT) since he obtained his BSc (Chem.Eng) in 1967. After obtaining his PhD in 1977 he spent three years working in oil refining, which gave him valuable insights into practicing engineering. Since 1979 he has been involved in a range of curriculum development initiatives, from course development to programme development, as well as improving teaching and learning (including the use of collaborative learning, computer simulations, and problem-based learning). A formative experience in this regard was year's sabbatical at Imperial College in London. Professor Fraser's research interests were Process Synthesis and Engineering Education, in which he was focused on improving student learning and success, both by curriculum reform and by better ways of teaching. In Process Synthesis, he has worked in Heat Exchanger Network Synthesis, as well as Mass Exchange Network Synthesis, making use both of Pinch Technology and Mathematical Programming.

He was a founder of the Centre for Research in Engineering Education (CREE) at UCT in 1996, and also served as Director of CREE from 2000-2005. He was a founder member of the African Engineering Education Association (AEEA) and has been its Secretary - General since its formation in 2006. Duncan was elected to the first Governing Board of the Research in Engineering Education Network (REEN) in 2009, and in 2011 he was elected Chair of the REEN Board. In 2011 he was elected a Vice-President of the International Federation of Engineering Education Societies (IFEES) and should have succeeded Prof. José Carlos Quadrado as IFEEES President in Dubai, next December. Professor Fraser has published numerous papers in peer-reviewed journals and made many presentations at national and international conferences, and also run workshops, in both of his research areas.

Duncan was also known to be a great man, with a very open mind, passionate by the international engineering education cooperation. For sure, SEFI, and more generally speaking the IFEEES community, have lost a great and precious colleague and friend. We all share the pain of his children and of their mother, Jenny, of his sister Lesley, his closest family and relatives, friends and colleagues, to whose, SEFI and its President, Prof. Kamel Hawwash, express their most sincere sympathies. Duncan will not be forgotten.

FROM SEFI AND ITS MEMBERS

General news

As announced In June, our Secretary General participated in the International Forum of the **QUEECA project** (1) organised in Florence on 9-10 and in the Conference organised by UP Valencia, “Valencia Global 2014” (19-20 June).

The **QUEECA International Forum** took place in the premises of the University of Florence, School of Engineering and brought together around 50 participants from TEMPUS partners institutions and organizations (SEFI, ENAEE...). The event very nicely organised by our good colleagues Prof. Borri and E. Guberti was an occasion for the project partners to discuss the present and future situation of engineering education accreditation, in Europe and in Central Asia, and to examine the recent project's achievements. The Forum was also for SEFI a great opportunity to meet and establish cooperation with representatives of institutions and accreditation agencies from Uzbekistan, Kirghistan, Tadjikistan and Kazakistan.

(1) QUEECA: Quality of Engineering Education in Central Asia

The “**Valencia Global 2014 – Internationalizing Engineering Education**” conference was the occasion for F. Côme to give a plenary presentation on “SEFI: Driving Engineering Education to Meet Future Challenges”, and this context to present the activities of our Society and its priorities for the next five years.

The Conference attended by 80 representatives from engineering schools all over the world was a wonderful opportunity for the establishment of a series of new partnerships and also to reinforce existent cooperation with members institutions represented in Valencia. The Conference also welcomed a series of plenary presentations (see vg2014.webs.upv.es), and notably the one given by our Vice President Fouger from Dassault Systèmes, on “The Digital Learning Experience in the Post-MOOC Era”.

We hereby would like to thank the organisers, in the persons of Enrique Ballester Sarriás, Dean of ETSID, Universitat Politècnica de València, and Luis Manuel Sánchez Ruiz, Vice Dean of International Relations ETSID, Universitat Politècnica de València, for the excellent conference and great organisation. Videos and plenary presentations are available on vg2014.webs.upv.es/



From left to right, Luis Manuel Sanchez Ruiz with Françoise Côme, Xavier Fouger and Françoise Côme.

MANUSKILLS

Also, on July 3rd, SEFI Vice-President Xavier Fouger represented SEFI at the Manuskills Workshop “Innovating Manufacturing Education, Workplace Training & Performance Support” held on the 3rd of July in Milan at the Department of Management, Economics and Industrial Engineering (DIG) of the Politecnico di Milano.

Presentations given this workshop are available on: <http://www.worldmanufacturingforum.org/#!presentations-manuskills-workshop/c1rcv>

We thank the Manuskills team for their invitation and are certain that this could be the start of a fruitful collaboration among academia, research centers, companies and institutions on the relevant topics of manufacturing education and training. Please note also that a Workshop organised by the Manuskills leaders will be held in Birmingham in conjunction with the SEFI Annual Conference.

ASEE 2014 INTERNATIONAL FORUM AND ASEE 2014 ANNUAL CONFERENCE

SEFI together with LACCEI has been partner association in the organisation of the 2014 ASEE International Forum, that was held in Indianapolis, USA on the 14th of June, prior to the ASEE annual Conference (15-18 June). SEFI President, Prof. Kamel Hawwash, as well as EEDC President Mike Murphy represented SEFI on both occasions. A more complete report on these two events will be published in the next issue of the newsletter.

COOPERATION WITH BEST

Professor Anne-Marie Jolly, member of the SEFI AC , and Chairperson of the SEFI WG on Sustainability has been invited to represent SEFI and offer a presentation at the BEST Educational Symposium that will be held in Cluj-Napoca, Romania from the 23rd July to the 1st August 2014.

Announcements and Nominations

The Rector's Deputy of National Technical University of Greece and Vice President of SEFI, Professor Antonia Moropoulou, was elected Vice President of the Technical Chamber of Greece. SEFI congratulates Professor Moropoulou for her appointment.

The Technical Chamber of Greece is a public legal entity, with elected administration from 170.000 engineers. It is the official adviser of the State in all issues of technical development and awards professional engineering licenses. It aims at developing Science and Technology in sectors related to the disciplines of its members, for the economic, social, and cultural development of the country, in accordance with the principles of sustainability and environmental protection.



Professor Anne-Marie Jolly, former Director of Polytech'Orléans, has been elected as Vice-President of CTI—[Commission des Titres d'Ingénieurs](#), the French accreditation body in engineering on July 8th. Professor Anne-Marie Jolly is member of the SEFI AC , Chairperson of the SEFI WG on Sustainability. We congratulate Professor Jolly for her election, and hope she will thrive in this new position as she does in SEFI.



Former SEFI President, former TU Berlin President, and current President-elect of CESAER, Professor Jorg Steinbach has been appointed as "Founding President" of the Brandenburgisch Technische Universität Cottbus-Senftenberg (BTU-CS) earlier in July. This new institution is the result of a merger of the "Fachhochschule Lausitz" at Senftenberg and the former BTU Cottbus, University of Technology at Cottbus. We congratulate Professor Steinbach for his appointment and wish him the best for this new challenging position.



SEFI Annual Conference 2015 New Dates!

The final dates of the SEFI Annual Conference 2015 “Diversity in Engineering Education: an Opportunity to face new trends in engineering” to be held in Orléans (France, near Paris) are 29 June-2 July. Mark your diaries and calendars!

The website is under construction and will be launched before next September.



University of Aalborg



Master in Problem Based Learning - MPBL : Start of the new programme in September 2014!

The Aalborg Centre for Problem Based Learning in Engineering Science and Sustainability under the auspices of UNESCO offers an online programme providing an opportunity for engineering educators to get a MSc in education.

The aim of this Master's programme is to support participants in achieving competences that will allow them to act as change agents in the introduction of problem based and project organised learning at the level of a single course as well as at the level of a study programme or an institution within the context of engineering and science education or related educations.

The MPBL programme has been designed according to the PBL principles: It is problem based and project organised. Participants work in teams with educational experiments designed to solve real-life problems, preferably located within their own teaching practice.

The study load of the programme is 60 ECTS points

Duration: September 2014 - July 2016

Extended Application Deadline: August 1, 2014

The first module will start in September 2014 with 'Development of teaching competences'. The second module 'PBL models and principles' will start on February 1 2015. It is also possible to start the programme with this second semester.

For further information please follow this link: <http://www.mpbl.aau.dk/>

For further information about the academic content please contact:

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or

Mona Lisa Dahms, MPBL programme coordinator

Phone: +45 9940 8337

E-mail: mona@plan.aau.dk

CDEFI



Report on "New Perspectives for Women Scientists Careers in Europe", EPWS Conference at the French Ministry of Higher Education and Research, 11 June 2014

The conference, organised by the European Platform of Women Scientists (EPWS), was attended by over 80 delegates, from 17 EU countries, Armenia and the USA, representing numerous organisations working to overcome the issues for women in science today.

The conference had been organised by Claudine Hermann, the Vice President of the EPWS, and Yvonne Pourrat, of the French EPWS member association ECEPIE and coordinator of GenderTime EU project.

The programme began with a message from the French Minister of Higher Education and Research, Geneviève Fioraso, who welcomed delegates warmly.

Yvonne Pourrat, chaired the morning session, which focussed on '**Gender in the new European Framework Programme Horizon 2020**' and began with a video message from Elisabeth Morin-Chartier, a Member of the European Parliament and President of the European Union of Women, who thanked the EPWS for their important role, emphasising there is still a lot of work to be done, but she will do everything she can as a member of the EU parliament to further this work.

A valuable up-date of how the preoccupation with gender is present in Horizon 2020 had done by Viviane Willis-Mazzichi, the Head of Sector "Gender", European Commission, DG Research and Innovation, and Nadine Heller-Genath, of FiF Bonn, provided interesting information on German experience of a National Contact Point on Women in research.

Then a round table presented five current EU funded projects dealing with gender equality in scientific careers: INTEGER, EGERA, GenderTIME, GENOVATE and STAGES. The presentations was focussed on the results and impacts of each project.

The afternoon session focussed on 'Up-skilling Women Scientists Careers - European and French perspectives'. A Keynote

speech of Professor Nicky Le Feuvre, from University of Lausanne, gave a personal view of modern sexism. Two round tables, one on Human Resources Management in R&D in both the private sector and in public research institutions and a second on mentoring experiences in private and public organisations in Europe and in France, completed the programme.

The afternoon was drawn to a conclusion by André Béraud, of ECEPIE, who was impressed by the positive messages from the talks which raise hopes for the future. However he did caution that, although we now understand the problems more clearly, the next step is the implementation and the evaluation of implemented programs.

By Yvonne Pourrat, Officer for European Relations, CDEFI.

More information on www.cdefi.fr

SEFI WG Mathematics



The 17th SEFI Mathematics Working Group Seminar took place in Dublin, Ireland, on June 23 - 25. About 70 participants from 12 European countries came together for three days to discuss important issues related to the mathematical education of engineers. The seminar was jointly hosted by the Dublin Institute of Technology (DIT), the Institute of Technology Tallaght (ITT) and the Institute of Technology Blanchardstown (ITB). Dr Paul Robinson from ITT chaired the local organizing committee that excellently organized the event. The programme consisted of three keynote lectures by Thomas Schramm (Hamburg HafenCity University), Tim Joyce (Office of Public Works, Ireland) and Chris Sangwin (University of Loughborough), 20 paper presentations and about 10 poster presentations and software demonstrations. In addition, there were two larger discussion sessions on "What are the important topics in the mathematical education of engineers?" and "How can technology improve teaching and learning?". A visit to Dublin Castle and a trip to the historic site of Glendalough gave the participants the opportunity to learn more about the history of the hosting country.

The main achievement after the last seminar in Salamanca, Spain, in 2012 was the issuing of the third edition of the working group's curriculum document called "A Framework for Mathematics Curricula in Engineering Education" which was referred to quite often during the seminar. The document also summarizes many contributions to former seminars and hence provides valuable references to further literature. The proceedings of the 17th seminar and the curriculum document can be freely downloaded from the group's website at <http://sefi.htw-aalen.de>.

The next seminar is planned for 2016 in Gothenburg, Sweden. The local organizing committee headed by Tommy Gustafsson (Chalmers University) gave a promising presentation of the venue which will again attract many participants. In 2015 another workshop will be organised in conjunction of the SEFI 2015 Conference in Orléans on Monday 29th June.

Burkhard Alpers, HTW Aalen – Aalen University of Applied Sciences

IIDEA workshop in Tsinghua University, PR China



This very successful IIDEA workshop entitled *Cross-sector Collaborations in Engineering Education: Masters Student Learning and Faculty Development* was held on July 4-5, 2014, in Tsinghua University, PR China. This two day workshop is the third organised in Tsinghua University and was sponsored by Mathworks.

The moderators and experts present were IIDEA co-director, Dr. Jennifer DeBoer from MIT, Prof. Reinhart Poprawe from RWTH-Aachen, Former President of SEFI Prof. Jörg Steinbach, Co-Founder of IIDEA, Prof. Lueny Morell from NEU/University of New Haven, Prof. Axel Zafoschnig from Wolfsberg Technical College, as well as two invited speakers from Mathworks, Dr. Ken Dunstan, and Dr. David Chen.

IIDEA is a SEFI/IFEES initiative.

For more information, pictures and presentations, please visit: www.iideainstitute.org

FROM PARTNERS

ENAAEE



The first meeting of the new Administrative Council of the European Network for Accreditation of Engineering Education (ENAAEE) under the chairmanship of the newly elected President Prof. Bernard Remaud was held at the ENAAEE offices in Brussels on 19th June 2014. Two Vice-Presidents, Dirk Bochar, Secretary General, FEANI, and Denis McGrath, former Registrar, Engineers Ireland, were also elected.



The meeting covered a wide range of issues. Three new agencies were authorised to award the EUR-ACE label to the engineering degree programmes which they accredit, the Agencia Nacional de Evaluación de la Calidad y Acreditación in association with IIE, Instituto de la Ingeniería de España, Spain, the Finnish Higher Education Evaluation Council and the Swiss Center of Accreditation and Quality Assurance in Higher Education. To date 1600 engineering degree programmes in 300 universities have been awarded the EUR-ACE label.

Top Row, L to R. Ralph Appel, Chief Executive, VDI, Germany and ASIIN, Rafael Aller, IIE, Spain, Prof. Alfredo Squarzone, COPI, Italy, Prof. Claudio Borri, Università degli Studi di Firenze: UniFI, Italy, Mike Bridgefoot, Engineering Council, UK. Front Row, L to R. Denis McGrath, Vice-President, Prof. Bernard Remaud, President, Dirk Bochar, Vice-President, Rita Heissner, Secretary. Françoise Côme, former ENAAEE Vice-President and Juhani Nokela, Treasurer, were not present for the photograph.

More information on: www.enaee.eu

EUA



The second EUA Funding Forum will take place at the **University of Bergamo on 9 and 10 October 2014.**

A biannual event, the Funding Forum is a unique, inclusive platform open to all higher education funding stakeholders – university leaders and managers, researchers, students, public authorities, public and private funders & partners. This year's Forum focuses on designing strategies for efficient and sustainable funding of higher education in Europe.

The [programme](#) of the event includes a rich selection of high-level speakers from universities, public authorities and private partners from 17 different countries. In particular, the Forum will feature a plenary session dedicated to the impact of European funding, featuring MEP Christian Ehler, previously rapporteur for the rules for participation under Horizon 2020, and representatives from the European Commission's Directorates General for Research and Innovation as well as for Education and Culture.

Other highlights of the Forum include the University Leaders' Panel, which will open the discussions, as well as the Evening Session, a time dedicated to thought-provoking comparisons between European and North American universities.

Registration are available on: <https://www.etches.com/ehome/90507?eb=131619>

More on www.eua.be

European Space Agency



The European Space Agency (ESA), in collaboration with the Swedish National Space Board (SNSB) and the German Aerospace Center (DLR), is currently accepting proposals for the eighth edition of the REXUS/BEXUS programme (Rocket and Balloon Experiments for University Students).

The REXUS/BEXUS programme offers flight opportunities on sounding rockets and stratospheric balloons for experimental payloads designed and developed by university students. The balloons and rockets will be launched from Esrange in Kiruna, Sweden, in autumn 2015 and spring 2016, respectively.

The students, assisted by a project supervisor, are invited to propose, design, implement and fly their own experiment. Typical experiment disciplines include upper atmosphere and reduced gravity research, radiation analysis and technology demonstration. The participation in this project is a valuable experience, where students can take part in a space-related project throughout all its stages - from the first idea to the post-flight analysis.

Please refer to the programme homepage for further information regarding the research platforms, programme timelines and the application procedure: <http://www.rexusbexus.net>.

Alternatively, you may visit the ESA hands-on projects portal via the ESA Education website: <http://www.esa.int/Education>.

The call for experiment proposals will close on Monday, 13 October 2014.

Magna Charta Observatory



EUA and the University of Bologna are the founders of the Magna Charta Observatory, the institution that promotes, defends and enhances the core values of Institutional Autonomy and Academic Freedom, principles that are written on the Magna Charta Universitatum. But the role of the Observatory is wider than this.

For this reason, we invite you to look at a video-presentation,: <https://www.youtube.com/watch?v=8tJWOphITrs>.

More information on: www.magna-charta.org

IACEE



The 2014 IACEE 14th World Conference on Continuing Engineering Education at Stanford University, June 24-27, 2014 was a huge success and a wonderful celebration of IACEE's 25th Anniversary! Not only was the conference a success in terms of the event, but a success for the organisation as well.

Videos from IACEE's 2014 World Conference will be made available at <http://iacee2014.stanford.edu/> soon, as well as presentations from oral sessions.

During the World Conference on CEE the election of a new IACEE Council was held and a new IACEE Executive Committee to govern the association for the next biennium was elected.

SEFI would like to congratulate the Executive Committee and Council members, President Kim A. Scalzo, State University of New York - USA, Past-President Nelson C. Baker, Georgia Institute of Technology - USA and Vice-Presidents Soma Chakrabarti, University of Kansas - USA, Zhang Guoqing, China Association for Continuing Engineering Education - China, Paul Marca, Stanford University - USA, and particularly **Kirsti Miettinen, Chair of SEFI WG on CEE from Aalto University - Finland**.

The Chair of 15th World Conference on CEE has also been nominated, Alfredo A. V. Soeiro from University of Porto - Portugal. The IACEE's 15th World Conference will be held in Porto, Portugal, May 17-20, 2016.

Complete contact details and the list of elected Council members are available on www.iacee.org

GEDC: Engineering Education needs an International Dimension



GEDC Chair, Prof. John Beynon published a very interesting view on Engineering Education in the periodical of the Australian Academy of Technological Science and Engineering—ATSE.

A copy of this article is available on www.sefi.be/?p=4651

CALENDAR

July 2014

22-24 Guayaquil, EC

LACCEI 2014 Conference ([link](#))

September 2014

11-13 Tomsk, RU

XIIth Triple Helix International Conference, TUSUR University ([link](#))

15-19 Birmingham, UK

2014 SEFI Annual Conference ([link](#))

25-26 Moscow, RU

ICDE International Conference "Connecting the World through Open, Distance and e-Learning" ([link](#))

October 2014

9-10 Bergamo, IT

EUA Funding Forum ([link](#))

13-15 Heibei, PRC

7th International Conference on Engineering and Business Education ([link](#))

SEFI's event or SEFI related event

SEFI's partners events

Latest Issue of the EJEE

Content:

- *Teaching global engineering in Canada, learning informality of the Global South*, **Govind Gopakumar**
- *The teaching researcher: faculty attitudes towards the teaching and research roles*, **E. Alpay, R. Verschoor**
- *Building international experiences into an engineering curriculum – a design project-based approach*, **Victor Maldonado, Luciano Castillo, Gerardo Carbajal, Prabhat Hajela**
- *Does teaching students how to explicitly model the causal structure of systems improve their understanding of these systems?*, **Eva Jensen**
- *A democratic and student-centred approach to facilitating teamwork learning among first-year engineering students: a learning and teaching case study*, **Dorothy Missingham, Robert Matthews**
- *Women's experiences in the engineering laboratory in Japan*, **Masako Hosaka**
- *An exploration of the professional competencies required in engineering asset management*, **Adelle J. Bish, Cameron J. Newton, Vicky Browning, Peter O'Connor, Renata Anibaldi**
- *Controlling the didactic relation: a case in process engineering education*, **Juha Jaako**



As a SEFI member, if there is any trouble in the reception of the EJEE, please contact Jacques Schibler, Communication_officer@sefi.be, or if you wish to become a member.

The bi-monthly scientific journal of SEFI is sent to all members as a benefit of their membership. It is published by Taylor and Francis (London, UK). Chief Editor: Dr. E. de Graaff.

INTERNATIONAL PRESS REVIEW

OPEN, DISTANCE AND ONLINE EDUCATION

Calling students in distance education



The International Council for Open and Distance Education calls on students studying through distance or blended learning in a European institution and ready to share their opinion on how learning can be better matched to students' needs.

This survey aims to give a voice to users of European distance education programmes or courses, allowing them to report on their needs and experiences as adult learners. This is part of a research project to examine how the distance education offer of European higher education institutions can be better matched to the needs of adult learners.

The survey remains open until 25 July and the results of the survey will be available in an online report and distributed to respondents in October 2014. Participants will be entered in a prize draw to win one of 10 Amazon vouchers worth EUR 50.

To perform the survey visit: <http://idealproject.eu/share-your-thoughts-and-win/>

This survey is organized through the IDEAL project. IDEAL stands for "Impact of Distance Education on Adult Learning" and is a joint initiative of the International Council for Open and Distance Education (ICDE), the UNESCO Institute for Lifelong Learning (UIL) and StudyPortals, and is funded by the European Commission. You can find more information on the "Impact of Distance Education on Adult Learning" on [the IDEAL project website](http://idealproject.eu).

More information on: <http://www.icde.org/>

Online Educa Berlin - Conference on Technology Supported Learning



Online Educa Berlin is the largest global conference on technology supported learning and training for the corporate, education and public service sectors, and has announced dates for this year's event. The conference will be held on 3-5 December 2014.

Over its 20 years, the event has consistently brought together high-level decision makers from education, business and government sectors, the three areas driving e-learning adoption and innovation. The spotlight is also on international providers who will demonstrate their products, tools and services at the exhibition, giving participants a closer look at the latest technologies and innovations.

To register please visit: online-educa.com

ERASMUS +



Western Balkans in Erasmus+

On 19-20 June, the European Commission hosted in Brussels the 3rd Ministerial Meeting of the Western Balkans Platform on Education and Training (WB PET). The event brought together Ministers of Education and other government representatives, national delegations, EU officials and relevant bodies responsible for EU education and training programmes in the six Western Balkan countries (Albania, Bosnia and Herzegovina, the former Yugoslav Republic of Macedonia, Kosovo, Montenegro and Serbia).

The event was important for several reasons. Firstly, it was a follow-up on the national studies conducted last year on the state of play of teacher education and training in the Western Balkans. National experts presented the findings at the meeting, on the basis of which each Minister of Education made a recommendation as to the future focus of national reforms, and the kind of regional cooperation that should be established to tackle common challenges in the teaching profession.

Secondly, it was at this event that most of the countries from the region finally signed an Agreement on partial participation in Erasmus+ (the EU programme for education, training, youth and sport 2014-2020). The Agreements were signed on 19 June with Albania, Bosnia and Herzegovina and Montenegro. Now it is up to each country's national parliament to ratify the Agreement in order to make the participation in Erasmus+ possible. Serbia had already signed its Agreement on 25 April, which entered into force a few days before the Ministerial Conference. The former Yugoslav Republic of Macedonia had

also signed the agreement before the event and joined as a programme country, which means that it has right to full participation in Erasmus+, just like any other EU member state. The rest of the countries will take part in Erasmus+ as partner countries, meaning that they will participate only in those actions which are not managed by a National Agency (platforms and networks, but also higher education and youth mobility, as well as capacity building in HE and youth). Kosovo is the only country from the region not to join Erasmus+ this time, but talks with the EU on a Framework Agreement are under way.

The Ministerial Meeting was an opportunity to remind participants about cooperation opportunities in higher education, most of which were already available for the countries in the region, such as Joint Master Degrees/Marie Curie Fellowships (former Erasmus Mundus), capacity building (former Tempus), and Jean Monnet. The novelty for the Western Balkans is the international opening of Erasmus, which will allow for more mobility of students and staff between EU and the Western Balkans. Another new possibility is to participate in electronic platforms such as [EPALE](#) (adult education) and [e-Twinning](#) (school cooperation projects).

The Western Balkans Platform on Education and Training (WB PET) was launched in 2012 as an EU initiative for cooperation in education and training with the Western Balkan countries. It encourages regional cooperation and communication, as well as sharing of good practices in the region and in the EU. It also provides follow-up in terms of joint projects, studies and events. So far, three Ministerial meetings and three regional conferences have taken place under the auspices of WB PET, focusing respectively on the relevance of Higher Education, on Teacher Training and Education, and cooperation opportunities for the Western Balkans under Erasmus+. The next regional seminar, which will focus on the impact of EU higher education programmes in the Western Balkans (Erasmus Mundus, Tempus, Jean Monnet and Marie Curie) will take place in Serbia in autumn 2014.

More information on <http://www.aca-secretariat.be/>

Strengths and diversity of European student mobility, 2e2f-Campus France Study

What is Europe's standing as regards international mobility? What proportion does the Erasmus programme represent with regard to overall European student mobility? What is France's position in terms of European mobility programmes and the Erasmus programme?

The new study jointly conducted by Europe-Education-Formation France Agency (2E2F) and Campus France tackles these and many other questions related to the dynamics of European student mobility. Below are some of the findings of the study:

Europe is the leading host region for international students. European nationals also represent the second largest student population in international mobility programmes with 800 000 European students taking part in programmes around the world.

France is the fourth ranked host country for European students, representing 7.5 % of mobility activities, an increase of 12.8 % since 2007.

The Erasmus programme is a central component of European mobility and has enabled 3 million students and 300 000 teachers and staff from higher education institutions to go abroad to study, train or teach in Europe.

There are significantly more mobility activities aimed at studies than traineeships; nevertheless, the proportion of traineeship periods has increased significantly these last years. The need for students to gain professional experience before entering the labour market is the driving force of this trend.

Erasmus is one of Europe's major programmes, as shown by the recent 2E2F agency – TNS Sofres study: The French consider Erasmus as the third most European initiative after the Euro and the CAP

The study is available here: [2e2f-Campus France study](#)

More information on : www.aca-secretariat.be/

Turkey latest country to join Erasmus+

The Republic of Turkey officially informed the European Commission that its internal legal requirements for the entry into force of the Erasmus+ Agreement had been fulfilled, in accordance with Article 5 of the said Agreement.

Turkey has therefore become an Erasmus+ Programme Country and enjoys all the associated rights and duties, on equal footing with the 28 EU Member States, the former Yugoslav Republic of Macedonia and the EFTA countries that are party to the EEA Agreement, namely Norway, Iceland and Liechtenstein.

The entry into force of the Agreement follows its signature on 19 May, as well as its ratification by the Turkish Council of Ministers and publication in the Official Gazette of 17 June (reference no. 2014/6458). The date of the entry into force is 18 June 2014.

http://ec.europa.eu/programmes/erasmus-plus/news/2014/20140620_en.htm

FUTURE OF EDUCATION

"Future of Higher Education - Bologna Process Researchers' Conference"



The Future of Higher Education - Bologna Process Researchers' Conference - Second Edition will take place between 24 and 26th November 2014, in Bucharest, Romania. At its second edition, the conference aims to offer a discussion platform for the researchers in the field of public policies in higher education, focusing on international developments such as the Bologna Process, but also beyond. It is also an event linked to the EHEA Ministerial Conference and the outcomes of the conference, two volumes of proceedings will be part of the document package prepared for the Ministerial Conference held in 2015, in Yerevan, Armenia, thus creating a bridge between experts and political decision-makers.

Authors are invited to contribute to the event with academic papers of 5-6000 words, developed under one of the nine sub-themes of the FOHE-BPRC 2 event:

1. Internationalisation
2. Financing and Governance
3. Excellence and diversification of higher education institutions' missions
4. Student Centred Learning / Teaching and Learning
5. Social dimension/ Equity
6. Education, Research and Innovation
7. Quality Assurance
8. EHEA at the crossroads: Bologna Process and the future higher education
9. Evidence-based policies in higher education: data analytics, impact assessment and reporting

Details related to the call for papers, a description of the conference themes and more about the conference can be found in the attached documents, as well as on the website of the event: <http://fohe-bprc.forhe.ro/>

More information on: <http://www.ehea.info/news-details.aspx?ArticleId=352>

Education Post-2015: What next? UNESCO participation to post-2015 Education agenda



As 2015 approaches, the international community is discussing the importance of education in the post-2015 international agenda. Education Ministers, with support from UNESCO, have already committed to a last "big push" to reach the Education for All (EFA) goals, while the UN Secretary-General's [Global Education First Initiative](#) is mobilizing world leaders around the centrality of education. UNESCO is actively helping to frame the post-2015 education agenda.

The Organisation has invited senior experts to revisit two landmark education reports – Delors (1996) and Faure (1972) – and consider their relevance today.

UNESCO is also supporting the development of EFA country assessments which will take stock of progress since 2000 and reflect on future needs and challenges. Along with the [EFA Global Monitoring Report](#), these assessments will be shared at a major global education forum foreseen in Korea in the spring of 2015, and will feed into the definition of the new global education agenda.

The Organisation is also the co-convenor of numerous regional and global consultations on education in the run-up to 2015, such as the [Post2015 Global Thematic Consultation on Education](#) led by UNESCO & UNICEF.

UNESCO presented its [vision on the post-2015 education agenda](#) to over 190 Member States attending the 37th session of UNESCO's General Conference. Country representatives gathered at UNESCO Headquarters for the occasion debated the future of education - its content, scope and articulation with the post 2015 development agenda.

One of the main conclusions of the exchange is that representatives committed to promoting a single overarching goal on

education in the future development agenda, based on the principles of access, equity, and quality, in the perspective of lifelong learning for all.

More information on: <http://en.unesco.org/post2015/education-post-2015-what-next#sthash.vUqLX46n.dpuf>

CALL FOR PROPOSALS



Call for promoting Gender Equality in Research and Innovation

Specific challenge: Some studies have explored in specific fields (e.g. ICT) and countries the impact of gender diversity on innovation in terms of productivity, performance and relevance to society (e.g. number of publications and of patents, market shares). However gender diversity in teams and organisations has not yet been systematically analysed.

Scope: The proposals shall develop concepts and methodologies for the evaluation of the impacts of gender diversity in research teams and organisations on research quality and productivity, as well as on innovation; apply the concepts and methodologies developed to a selected range of sectors using a comparative approach across countries.

The Commission considers that proposals requesting a contribution from the EU of the order of EUR 1 million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

The research will provide a better understanding of the relationship between gender diversity and Research and Innovation performance. In the medium term, it shall help develop appropriate conditions for to contribute to research intensity and productivity.

More information on: <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-geri-2014-1.html#tab1>

Entrepreneurship Education (Pan-European Entrepreneurial Learning Initiative)

This call aims to support entrepreneurial education and training and intends to boost the growth and business creation, to give our youth the necessary entrepreneurial knowledge and skills and to educate the future generations of entrepreneurs. Entrepreneurship education is about encouraging creative thinking and promoting a strong sense of self-worth, initiative and a tolerance of failure. Entrepreneurial learning should be available to every pupil/student in every school.

Submission of proposals

The deadline for electronic submission is 20 August 2014 at 17.00 hours (Brussels time).

The electronic submission reference for this call will be COS-ENTEDU-2014-4-06.

More information on: <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2424-seac-2-2014.html>

Support to Innovation, Human Resources, Policy and International Cooperation

This call is part of the Excellent Science Pillar and is divided in:

[INFRASUPP-1-2014: Innovation support measures](#)

[INFRASUPP-3-2014: Strengthening the human capital of research infrastructures](#)

[INFRASUPP-5-2014: Policy measures for research infrastructures](#)

[INFRASUPP-6-2014: International cooperation for research infrastructures](#)

[INFRASUPP-7-2014: e-Infrastructure policy development and international cooperation](#)

Deadline is 2 September 2014 17:00 Brussels Time

More information on: <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-infrasupp-2014-2.html#tab1>

UNIVERSITY-BUSINESS COOPERATION



Measuring the impact of university-business cooperation: Study by the European Commission

Despite a long history, cooperation activities between businesses and universities in the field of education have a relatively low profile. However, there are signs that there is now an increasing recognition of the value to be gained from such collaborations. Whilst there is no single driver for university-business cooperation, businesses, universities and students all value the benefits to the student experience and its contribution to the employability of students.

There are many ways in which cooperation activities take place. Most cooperation activities involve more than one form of cooperation and may also change over time as activities mature, evolve, or reach the end of their lifespan.

- The benefits of collaboration can be broadly described as falling into four categories, namely:
- Those that are aimed at strengthening levels of human capital, with labour supply and employment implications;
- Those that relate to stimulating entrepreneurship through teaching and learning;
- Those that relate to knowledge exchange, aimed at promoting or stimulating product/process innovation or new pedagogy;
- Those that relate to raising the profile of an organization.

The report shows that established methodologies for measuring, or assessing, the outcomes and impact of business-university cooperation in the field of education are quite limited.

This report presents two, linked, approaches that can be used to assess university-business cooperation in the field of education: a scorecard and an assessment framework that can be used for project planning and the assessment of investment proposals. Both can be used for assessing the progress of projects, from different perspectives, and both can be used for assessing the success of cooperation projects.

More information and the report can be found on: http://ec.europa.eu/education/news/2014/20140604-cooperation_en.htm

PUBLICATIONS

National student fee and support systems 2013/14

This new Eurydice report provides a detailed overview of the national public fee and support systems in place across European countries. The report contains key points which enable readers to have a good overall understanding of the topic while the national diagrams aim to show the main characteristics of each system

http://eacea.ec.europa.eu/education/eurydice/facts_and_figures_en.php#fees



Engineering in society

This e-book aims to provide students with a wider perspective on the profession of engineering. It has been produced by the Royal Academy of Engineering and the University of Leeds' Centre for Inter-Disciplinary Applied Ethics (IDEA), and is supported by the ICE, IET, IChemE, IOM3 and IMechE, and the Engineering Council.

Engineering in society: https://www.raeng.org.uk/news/publications/list/reports/engineering_in_society_ebook.pdf



EIF | The Digital World in 2030: What place for Europe?

Core digital technologies are evolving and converging rapidly, fueled by real-time, real-world data, driving us toward a Knowing Society and creating the foundation for an avalanche of innovative software platforms and other digital tools available and affordable to anybody and everybody, everywhere for virtually any purpose. In economic terms, we are finally on the cusp of "the real" third industrial revolution. We need to understand and exploit this vast opportunity, while also urgently addressing the intense social and political stresses this revolution will inevitably engender. Europe's political leaders need to engage with this revolution across their full range of competences. 2030 is now. Completing Europe's Digital Single Market is the most urgent priority.



For further information: <https://www.eifonline.org/component/attachments/834.html?task=download&Itemid=114>

or download the full report: <https://www.eifonline.org/digitalworld2030.html>

SEFI is the largest network of higher engineering education institutions (HEIs) and educators in Europe.

It is an international non-profit organisation created in 1973 to contribute to the development and improvement of HEE in Europe, to reinforce the position of the engineering professionals in society, to promote information about HEE and improve communication between teachers, researchers and students, to reinforce the university-business cooperation and to encourage the European dimension in higher engineering education.

Through its membership composed of HEIs, academic staff, students, related associations and companies, SEFI connects over 1 million students and 158000 academic staff members in 48 countries.

To reach its goals, SEFI implements diverse activities such as Annual Conferences, Ad hoc seminars/workshops organised by its thematic working groups and committees, SEFI organises the European Engineering Deans Conventions, publishes a series of Scientific publications (European Journal of Engineering Education) and Position Papers, is involved in European projects, cooperates with other major European and international associations and international bodies (European Commission, UNESCO, Council of Europe, OECD).

SEFI also participated in the creation of ENAEE, IFEEES, EuroPace, IACEE and more recently of the Institute for the development of Engineering Academics, IIDEA, and of the European Engineering Deans Council, EEDC.

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SEFI's corporate partners



SEFI's corporate member



The SEFI newsletter contains information about SEFI's recent activities as well as a summary of the latest stories in higher engineering education in Europe and worldwide. **News@sefi is sent for free to SEFI members.** All previous issues are available on www.sefi.be "members only".

All staff and students of an institution, an association or a company member of SEFI are entitled to receive free copies of the newsletter. So, in case you know somebody that is interested in a free copy, feel free to contact us.

