

A New World Engineering Education Conference Presented by the IEEE Education Society

EDUNINE

SUMMARY

We are proposing that the IEEE Education Society financially sponsor a new world engineering education conference, addressing the multiple challenges engineering education is continuously facing in a fast mutable world. This conference will be located at a central location within IEEE Region 9 (Latin America). The EDUNINE conference will provide a forum for academic, research and industrial collaboration on world engineering education. The IEEE Education Society's Fields of Interest will guide the program committee and the call-for-papers.

The conference will use advances in technology to streamline the conference process ranging from reception of video abstracts for selection and peer-review to providing on-line and recorded Internet broadcasting of the Plenary sessions, and if possible, the author presentations, approaching this way the needs of the new generation of engineering professionals.

The IEEE Education Society is an organizational unit of the IEEE. Thus, the conference will follow all rules and procedures expected of IEEE sponsored conferences and meetings. Examples include year-end conference accounting and auditing, legal memorandums-of-understanding between co-sponsors, shared liability and insurance responsibilities between parties, and shared revenue or loss between co-sponsors.

AUDIENCE

Although the majority of the expected 200 conference participants and attendees will reside within IEEE Region 9, we also expect to attract approximately 100 attendees from elsewhere in the world. We hope that a successful conference will lead to a broader world participant roster. The EDUNINE conference may co-locate with existing top quality conferences (e.g., ICECE – International Conference on Engineering and Computer Education, INTERTECH – International Conference on Engineering and Technology Education, WCSEIT – World Congress on Systems Engineering and Information Technology, etc.) to increase interest and attendance.

TIMELINE

The EDUNINE conference would be held during the last two weeks in February or the first two weeks in March. This date does not conflict with the annual Frontiers in Education conference, which is also co-sponsored by the IEEE Education Society. Similarly, it does not conflict with other major events in IEEE Region 9. This time frame is also desirable as the local weather conditions would best support this event (end of summer and a half time between Carnival and Easter). The four-day conference will begin on Sunday (Workshops and Welcome Cocktail) and will finish on Wednesday.

INITIAL VENUES

The first three EDUNINE conferences will be held at:

- IEEE EDUNINE 2017: Santos, Brazil
General Chair: Claudio Brito
Co-Chairs: Manuel Castro, Melany Ciampi,
Theme: **Balancing Generalist and Specialist Formation in Technological Carriers: a Current Challenge**
- IEEE EDUNINE 2018, Buenos Aires, Argentina
General Chair: Osvaldo Clua
Co-Chairs: Claudio Brito, Manuel Castro, Melany Ciampi
- IEEE EDUNINE 2019, Lima, Peru
General Chair:
Co-Chairs: Claudio Brito, Manuel Castro, Melany Ciampi

FINANCIAL SUPPORT AND REGISTRATION FEES

The IEEE Education Society will be the principle sponsor. The IEEE and IEEE Education Society logos will be prominently displayed on all conference marketing and publication items. Other IEEE entities, such as IEEE Region 9 and the local IEEE section, may also support EDUNINE.

The proposed conference individual registration fee will be approximately (US\$ 500-600). Special prices for students (US\$ 250-300) and IEEE members (US\$ 400-500) will be set according to the IEEE rules and procedures for IEEE sponsored conference and meetings.

The conference income will be provided by:

- an IEEE Education Society loan itemized on the conference budget and repaid from surpluses at the post-conference banking account closure;
- attendee registrations fees; and
- money from exhibitors and local supporters (City Hall, Banks, Telephony companies, Education service providers, Research projects, etc.).

The final conference budget surplus will be divided among the co-sponsors according to the sponsorship ratio. In the event of a budget deficit, each co-sponsor is expected to bear financial responsibility at the same sponsorship percentage.

CONFERENCE FACILITIES

Conference facilities could include meetings rooms and event spaces on the campus of the host University. Audio-visual support will be provided for conference participants. An exposition will be held in conjunction with EDUNINE in order to attract investors, support part of the expenses, and to provide better services to the attendees.

CONFERENCE INFORMATION CLEARINGHOUSE

The Web site for archival and management purposes will be located at:

<http://edunine-conference.org/>

This site will host the EDUNINE information clearinghouse: conference information, location history, the archive of papers, as well as steering committee minutes and conference corporate history.

CONFERENCE MANAGEMENT TEAM

An EDUNINE Steering Committee will manage the conference. This committee will be composed of: the immediate past General Chair, the current General Chair, the IEEE Education Society Vice President of Conferences and the IEEE Region 9 Conference Coordinator. An EDUNINE Steering Committee Chair will coordinate. This Steering Committee will coordinate EDUNINE interaction between the IEEE Education Society, the current FIE conference, other IEEE Education Society related conference activities, and IEEE Region 9 to assure synergies and the most positive evolution.

The main issues of the EDUNINE Steering Committee will be (this is not a closed list):

- guiding the types of activities and focus of EDUNINE conferences;
- establishing the functions, objectives and composition of the committees inside the EDUNINE organization;
- advising the local organizers on the annual EDUNINE activities (such as keynote speakers, focus of the calls for papers, guidance in financial, sponsorship and exhibition issues, site selection, etcetera);
- providing as needed assistance to the local organizers on issues related to publications (calls, proceedings, etc.);
- deciding the future conference locations and dates (at least two years in advance),
- transferring corporate history between conference years; and
- interfacing with the IEEE Education Society BoG and the FIE / EDUCON / TALE Steering Committees.

The conference will also have an International Advisory Board with experts not only from within IEEE Region 9, but also from other IEEE Regions. This will provide a broader view of World issues to assist the EDUNINE Steering Committee. An International Advisory Board Chair will coordinate.

The Program Committee and Local Committee will plan and implement each conference. The Program Committee will consist of all reviewers and a Chair. The Local Committee will consist of all local people at the host institution that are involved with the conference. These committees will be responsible for five levels of management:

1. Level of web services and information management including a general web page for dissemination and information, as well as for archiving, (EDUNINE Clearing

House), with scheduling and info of present conference (organization, hotel information and travel information), as well as info and papers from past conferences and future conferences announcement. This will be located at <http://edunine-conference.org/>;

2. Level of paper submission, reviewing, acceptance, copyrights, and preparation for publication. The results of the conference will be electronically available and indexed by IEEE in IEEE Xplore. Additionally, the conference plans to have the proceedings on-line;
3. Level of registration related services;
4. Economic management and Exhibition. The money management must be managed in the location of the conference but will follow all related IEEE financial rules and procedures for IEEE sponsored conferences. Local bank accounts are allowed by IEEE rules; and
5. Hotel management and travel management.

MOTION FOR APPROVAL

The IEEE Education Society leadership reviewed an initial version of this proposal at the June 2016 Education Society Board of Governors meeting. The BoG supported the motion in principle as serving one of the strategic goals of the Society – establishing a World engineering education conference held outside of the United States in IEEE Region 9.

Now, a motion is placed on the table that the IEEE Education Society Board of Governors approves the creation of an annual IEEE Region 9 conference with a 70% financial co-sponsorship in cooperation with three 30% co-sponsoring universities (COPEC) for EDUNINE 2017 to be held during 2017 in Santos, Brazil. The IEEE Education Society will provide a loan of US\$ 10,000 as start-up funds that will be repaid to the society as a conference expense.

Information supporting the motion: The EDUNINE 2017 General Chair will be Claudio Brito and Co-Chairs will be Manuel Castro (UNED) and Melany Ciampi (WCSEIT). The EDUNINE structure outlined in this document will be implemented. All IEEE rules and procedures for sponsored conferences and meetings will be followed.

This document has been reviewed and approved by the IEEE Education Society Vice President of Conferences and is presented to the Board of Governors for examination prior to vote.



IEEE EDUNINE 2017
**Engineering Education – Balancing Generalist
and Specialist Formation in Technological
Carriers: a Current Challenge**
Santos, Brazil



Dates proposed: March 19-22, 2017.

The dates selected are in the week between the Carnival and Easter when the hotel fees are smallest.

The conference will be organized in the same time COPEC organized ICECE and INTERTECH and the people that normally participate has this time to go the conference in Engineering Education. This conference regularly attracts more 100 participants from Brazil and happen editions we received more 9 hundreds participants.

EDUNINE Steering Committee: Claudio Brito, Manuel Castro, Melany Ciampi, Russ Meier and Francisco Sandoval (IEEE Region 9 Conference Coordinator). Claudio Brito will act as Chair. The IEEE Education Society and IEEE Region 9 could change proposed members if desired.

EDUNINE International Advisory Board: Martin Llamas, Edmundo Tovar and Rob Reilly. Martin Llamas will act as Chair.

EDUNINE Program Committee: Melany Ciampi and Henrique Santos will act as co-Chairs (20-30 people is the convenient number for this Committee).

EDUNINE Local Committee: All edition have an Local committee with a Local Chair and a Vice Local Chair (10-15 people is the convenient number for this Committee).

Management services.

1. Web services and information management: EDUNINE Steering Committee will manage it and will provide support for the servers and information. First version of server and web pages design will cost around US\$ 3,600. Yearly maintenance will cost around US\$ 1,500 including loading of conference proceedings. The website will be located at <http://edunine-conference.org/>.
2. Paper submission, reviewing, acceptance, copyrights, and preparation for publication on-line and in IEEE Explore. A paper management company will be contracted to provide the management service. Costs will be (for 200 papers) around US\$ 9,500.
3. Registration, hotel, exhibition, travel and economic management. Economic services will be managed in the COPEC Services.
 - 5-10% will be the cost of the service;
 - Logistics. Conference will be organized by COPEC in Brazilians Universities, facilities inside the University and City of Santos, changing from main

- Plenary rooms to conference technical rooms and exhibition, and providing lunch and coffee break services. A day (Monday) in a private island with barbecue during all day with a presence of a samba school will be provided;
- Technical sessions, welcome cocktail and banquet (for adhesion) will be organized by COPEC;
 - Exhibition in the area of main technical sessions and social area;
 - Hotel management
 - Direct reservation with the main hotels selected and blocked. Prospective of prices of hotels in the downtown Santos near the University in a fashion and nice living area includes a 5* hotel (US\$ 200 /night), a 4* hotel in the range of US\$ 150 /night and in the vicinity there will be 3* and 2* locations in the range of US\$ 50 to 100 /night. There are Hostel Places (approx. US\$ 15 /night).
 - Travel management
 - A travel agency will be arranged for the pre- and post- conference tours to give support to conference attendees.

The incomes of the conference will be:

- a US\$ 10,000 loan from the IEEE Education Society to be used as start up funds;
- an additional US\$ 5,000 in funds provided by the Partners for the conference;
- participant registrations
 - US\$ 500 is the regular IEEE member conference registration cost, being US\$ 550 the regular non-IEEE member registration. US\$ 450 is the advance IEEE member registration cost and US\$ 250 is the student member registration. US\$ 100 will be the Publication Fee. Accompanying person registration will be US\$ 150 and include entrances in all sessions (technical and cultural).
 - As an income registration budget we estimate 300 attendees being 100 authors (50% of IEEE members and 45% of students). This will be around US\$ 100,000 depending the number of IEEE members and students.
- Exhibitors and local supporters
 - US\$ 18,000 could be obtained for the different sources as budget.
- **A rough estimate of total income** is US\$ 162,000.

The expenses for the conference will include:

- Web services and information management will cost around US\$ 3,000;
- Paper submission, reviewing, acceptance, copyrights, and preparation for publication will cost US\$ 8,000;
- IEEE publication (400 final programs and Proceedings) with IEEE ISBN and IEEE Xplorer indexing will cost US\$ 5,000;
- Second edition DVD-ROM with video Plenary sessions will cost US\$ 1,000;
- Registration, hotel, exhibition, travel and economic management. Costs will be around US\$ 11,000;
- Bag, shirt and promotional items will cost US\$ 3,000;
- Exhibition environment preparation will cost around US\$ 3,000;
- Communications such as web and technical support will be provided by volunteers and contracted technical people and will cost US\$ 2,000;
- Buses joining the hotels to the Universities location and a day in the private island with barbecue and samba school will cost around US\$ 8,000;
- Tourist guides and included excursions will cost US\$ 3,000;

- Coffee breaks, lunches and banquet lunch during the conference will cost US\$ 50,000;
- Flowers, complements, gifts to main people involved, will cost US\$ 3,000;
- Hotel, trip, registration and fees for three plenary session speakers will cost US\$ 6,000;
- A repayment of the US\$ 10,000 IEEE Education Society loan;
- A ***rough estimate of total expenses*** is US\$ 130,000.

Using the rough estimates of income and expenses, there will be a surplus of approximately US\$ 32,000. Under the stated co-sponsorship percentages, the IEEE Education Society will receive US\$ 22,400 and COPEC will receive US\$ 9,600.