



Administrative Circular

AC/5/2012

2012-02-03

TO ALL NATIONAL COMMITTEES

TO ALL TECHNICAL COMMITTEES AND SUBCOMMITTEES

Dear Sir/Madam,

IEC-IEEE Challenge

The IEC and IEEE are for the second time organizing a world-wide Challenge open to Academia from engineering, information technology, economic, political and environmental sciences. To ensure broad participation by teaching and research staff, we ask you to encourage participation in the Challenge by key Academics by personally contacting 5 people. Please find herewith a brochure you can share with your contacts.

Online registration (<http://www.iecieeechallenge.org>) closes on 1 March 2012 and submissions are open until 1 July 2012.

1st Prize: USD 20 000

2nd Prize: USD 15 000

3rd Prize: USD 10 000

Prizes are awarded in October 2012 at the General Meeting in Oslo, Norway (winners are invited, all expenses paid)

Detailed rules can be found on the <http://www.iecieeechallenge.org> website.

Thank you for your help in increasing awareness of International Standards and boosting participation in this important international Challenge.

Yours sincerely,

A. AMIT
General Secretary

Annex

JRS



Organized by



IEEE

Jury Member

The
Economist



IEC-IEEE Challenge

How does
electrotechnology
impact economic, social
and environmental
development?

IEC-IEEE Challenge, a global competition open to academics

This global initiative invites the world's Academic Institutions to analyse and debate the impact of electrotechnology on the economic, social and environmental development of nations and regions, including how accepted standards affect this process.

How does electrotechnology impact economic, social and environmental development?

PRIZES

The following prizes will be awarded for the three best submissions:

1st Prize	USD 20 000
2nd Prize	USD 15 000
3rd Prize	USD 10 000

A group of eminent and distinguished leaders from Academia, Business and the Media will judge entries for their quality, originality, readability and clarity, sophistication and depth of research.

- Awards will be presented in October 2012 in Oslo, Norway, during the IEC General Meeting.
- The primary author of each of the winning publications will be invited to attend the Awards Ceremony (expenses paid).
- Winning entries will be included in a special IEC-IEEE Challenge commemorative publication, made available to all members of the IEC and IEEE. Additionally the submissions will be visible online on the IEC-IEEE Challenge website and distributed and recommended to international technical and business journals for worldwide publication.

Registration and submission of abstracts and full papers must be completed by 1 July 2012, 24:00 UTC¹ via www.iecieeechallenge.org exclusively.

¹ UTC = Universal Coordinated Time, also Greenwich Mean Time

Background

There have been more inventions during the past 100 years than in all of the previous history of mankind. This unprecedented technological advancement influences global trade and the environment, and brings social changes at national, regional and international levels.

Electrical, electronic and related technologies – collectively known as electro-technology – impact people’s comfort and standard of living, their communication and interaction with their environment. These technologies may largely determine a society’s ability to exchange information, develop and prosper. In turn, broad access to safe and efficient electrotechnology is dependent on universally accepted technical specifications and standards, which enable interoperability and international trade.

We invite academics to identify, analyse and debate why and how electrotechnology impacts economic, social and environmental development, including some of the driving forces and prerequisites for successful outcomes anywhere in the world.

We are calling for high-level publications that address the above from a variety of different angles and also enjoy the endorsement of the Academic Institution with which the primary author is affiliated.

PAPERS SUBMITTED

The papers submitted for the Challenge may cover a large range of topics², for example:

- Fundamental research and development
- Energy efficiency and climate change mitigation
- Energy security and public health
- Roll-out of renewables and Smart Grids
- Waste management and environmental preservation
- Case studies showing where electrotechnology and standardization helped solve real-world challenges, including their financial and economic impact
- Economic growth and GDP
- Research & Development
- Laws and regulations
- Safety of populations
- Technology transfer and information exchange
- Corporate efficiency and competitiveness
- Ability to innovate and export...

² non-exhaustive list

Who can participate?

The IEC-IEEE Challenge is open to all persons affiliated with an Academic Institution of higher education. These include members and heads of faculty, professors, lecturers, post-graduate students, teaching and research staff.

SUBMISSIONS

Registration for the competition must be completed by 1 March 2012 at 24:00 UTC

Submission of an abstract and full publication that addresses the previously-described topic and respects the IEC-IEEE Challenge rules must be made by 1 July at 24:00 UTC via the www.iecieeechallenge.org website.

A Submission:

- can be in the form of a “paper” or “case study”
- may be the work of one or several authors (co-authors)
- must have a title, list the names of all contributing authors and their contact details, indicate the affiliated Academic Institution and be prefaced with an abstract of no more than 400 words
- must be in English (Note: for the winning submissions, assistance will be offered for proofreading and final editing before publication. Submissions will not be judged on the quality of the English language)
- will be accepted only in electronic format. An electronic template will be provided for this purpose
- may not exceed 4 000 words of text (not including notes, tables, charts and bibliography which may not exceed 3 pages)
- shall be formatted using 12 pt type size
- of previously published papers are not permitted



Abstracts

- Abstracts may be submitted separately and prior to the full publication (after registration), electronically via www.iecieeechallenge.org starting 28 October 2011 at 12:00 UTC and until 1 July 2012 at 24:00 UTC
- All abstracts will be open and visible and can be commented on by all registered visitors of the Challenge website.
- Full submissions will not be visible to website visitors until the winners have been chosen and announced in October 2012 in Oslo.
- There can be no more than one submission per author or/and co-authors but any Academic Institution can make multiple submissions by different authors.
- All submissions must have approval to refer to the name of the Academic Institution with which the primary author is affiliated.
- The primary author is responsible for registering and submitting an abstract and full document that complies with the rules of the IEC-IEEE Challenge within the given deadlines. The author and Academic Institutions are solely responsible for ensuring that all copyright issues have been clarified and resolved before submission. The IEC and IEEE can under no circumstances be held responsible for copyright infringements that are committed by authors or Academic Institutions.

REJECTION OF SUBMISSIONS

- Submission without prior registration will not be possible.
- Publications that do not fulfill the IEC-IEEE Challenge rules will be rejected without further correspondence.
- Non-electronic submissions will not be accepted.

SUBMISSION COPYRIGHT

Copyright will remain with the author(s) and Academic Institution. The IEC and IEEE will be granted licenses to distribute and reproduce the material in accordance with the IEC-IEEE Challenge rules (full set of rules can be found on www.iecieeechallenge.org).

Awards and publication

- The Awards Ceremony will take place in Oslo, Norway, in October 2012.
- One representative for each winning entry will be invited to receive the award (expenses paid) on this occasion.
- The prize-winning submissions, together with others considered to be of outstanding merit, will be published in an IEC-IEEE Challenge commemorative publication. They will be made available to the combined international memberships of the IEC and IEEE of close to 500 000 academic,

technical and business professionals. The IEC and IEEE will endeavor to ensure the wide international distribution and publication of these submissions.

- Selected publications, including the three winning publications, will be openly accessible by the public on www.iecieeechallenge.org, unless the authors choose otherwise at submission.

1st Prize
USD 20 000

2nd Prize
USD 15 000

3rd Prize
USD 10 000



Oslo town hall and harbour

Jury

The best submissions fulfilling all IEC-IEEE Challenge rules will be reviewed by an Executive Review Council (ERC) for final judging and nomination for the 1st, 2nd and 3rd prizes.

The ERC consists of eminent, distinguished leaders from Academia, Business and the Media:



Jacques Régis
Former CEO of
Hydro Quebec,
Montréal,
Canada, and
IEC Immediate
Past President



Dr Moshe Kam
Department
Head, Electrical
and Computer
Engineering,
Drexel Uni-
versity, 2011
IEEE President



Paul Markillie
Innovation
Editor,
The Economist

JUDGING CRITERIA

All submissions complying with the IEC-IEEE Challenge rules (full set of rules can be found on www.iecieeechallenge.org) will be reviewed and judged based on the following criteria:

- Analysis and demonstration of linkage between economic, social or environmental development and electrotechnology, including some of the driving forces and prerequisites for success, notably standardization
- Originality of publication – novel approach, original findings
- Quality – refinement, analysis, argumentation that reaches publish-able quality (level of English is not a judging criterion)
- Sophistication and depth of research – demonstrate the review of relevant literature
- Readability and clarity – topic needs to be accessible to an audience of educated non-specialists.

While the IEC-IEEE Challenge is open to a wide variety of disciplines and topics, preference will be given to submissions that also reflect on the impact of technology standardization (electronic, electrical, information and communication) in the overall analysis.

The IEC and IEEE will not engage in any correspondence regarding selection criteria or winning entries.

Organizers & important dates

Organizers

IEC (International Electrotechnical Commission)

The IEC is the world's leading organization that prepares and publishes International Standards for all electrical, electronic and related technologies – collectively known as “electrotechnology”. It brings together 163 countries and close to 10 000 experts at the global level.

IEC International Standards include globally relevant specifications and metrics that allow electric or electronic devices to work efficiently and safely with each other anywhere in the world.

IEC work covers a vast range of technologies from power generation, transmission and distribution to home appliances and office equipment, batteries, nanotechnology, renewable energy, to mention just a few. The

IEC supports all forms of conformity assessment and manages Conformity Assessment Systems that certify that equipment, systems or components conform to its International Standards. www.iec.ch

IEEE (Institute of Electrical and Electronics Engineers)

IEEE, the world's largest technical professional association with over 400 000 members, is dedicated to advancing technology for the benefit of humanity. Through its highly cited publications, conferences, technology standards, and professional and educational

activities, IEEE is the trusted voice on a wide variety of areas ranging from aerospace systems, computers and telecommunications to biomedical engineering, electric power and consumer electronics. As part of its activities, IEEE has an extensive standards development programme with a portfolio of over 900 active standards and more than 500 standards under development. www.ieee.org

Additional Information

Answers to frequently asked questions can be found on the www.iecieeechallenge.org website. If you have additional questions, please send an email to: info@iecieeechallenge.org

IMPORTANT DATES

- Registration opens **28 October 2011 at 12:00 UTC**
- Registration closes **1 March 2012 at 24:00 UTC**
- Submission deadlines **from 28 October 2011 at 12:00 UTC to 1 July 2012 at 24:00 UTC**
- Notification of review result **15 September 2012**
- Awards Ceremony, Oslo, Norway **October 2012**
- Publication **Immediately following the Awards Ceremony and thereafter**

Jury Member

The Economist

The Economist is a weekly international news and business publication offering clear reporting, commentary and analysis on world politics, business, finance, science and technology.

The Economist is read by a worldwide audience of 3 million decision-makers. They include board directors, financiers, administrators, opinion-formers and politicians, many of whom hold influential positions at the centre of decision-making in major international organizations. *The Economist* will be represented on the panel of judges for the nomination of the awards. www.economist.com