



## Workshop Accelerated Electrons for Life (AcEL)



São Paulo | Brazil | November 6 – 7, 2017

### Sponsoring Options

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## 1. Welcome to the AcEL Workshop

Accelerated electrons are a universal tool for many industrial applications, well established for high-efficient production processes. The thermal processing with electrons is used for welding or evaporating metals, and for modifying the surface layer of metals. The chemical-biological effect of accelerated electrons is used to cure or crosslink polymeric materials, change their surface properties and sterilize materials. Especially in **agricultural** and **food sector** as well as in **biomedical branches** and **life sciences**, the effect of low-energy electron beam processes is becoming more and more important thanks to their number of advantages such as process control, reproducibility and process speed among others.

The **Fraunhofer FEP** offers research and development for industrial and public funded partners in the fields of vacuum coating, surface treatment as well as organic semiconductors. The Fraunhofer FEP has used low-energy electron beams for many years as a versatile tool e.g. to induce controlled chemical and biological effects on material surfaces. One already established process for an environmentally friendly and sustainable agriculture is the seed treatment using low-energy accelerated electrons. Low-energy electrons as an environmentally friendly and gentle technology also allow to effectively disinfect or sterilize surfaces of medical products (implants, instruments), packaging, foods and animals feeds or even sensitive materials and products within a short time. Just recently we achieved promising results with the inactivation of pathogens for vaccine production in a fast and more effective way. Together Fraunhofer institutes FEP, IZI, IPA and IGB successfully inactivated viruses like H3N8, Polio or Zika among others.

The **Nuclear and Energy Research Institute (IPEN)** is a Brazilian institution, supported and administrated technically and financially by the **National Nuclear Energy Commission (CNEN)**. It is recognized as a national leader institution in R&D areas of radiopharmacy, application of ionizing radiation, nuclear science and technology, nuclear reactors and fuel cycle, environmental science and technology, renewable energies, materials and nanotechnology, biotechnology, laser technology and education. The Institute will celebrate its 61st anniversary in August 2017. IPEN-CNEN/SP Nuclear Technology Graduate program in association with USP, completed 40 years of existence in March, 2016 and the actual graduate enrolment is of some 1400 students.

The **Radiation Technology Centre (CTR)** at IPEN-CNEN/SP was founded 45 years ago, spreading and consolidating the techniques that lead to radiation technology and radioisotopes applications in Industry, Human Health, Agriculture and Environment Preservation in Brazil. The scientific knowledge production, human power resources, technology transfers and generation of products and services are aimed to various segments of the Brazilian Society.

Together with the **German House for Research and Innovations** we are inviting partners and interested people from related branches, research institutions and policy makers to participate in our joint workshop "AcEL – Accelerated electrons for life". It will give you a detailed insight in current research and technology results and focused applications as well as procedures using **low-energy electron beam** and **high-energy radiation**. Different sessions focus on their use e.g. for **water treatment**, inactivation of **vaccines** or **seed disinfection**. Furthermore main applications and technologies for **hygiene and sterilization** in packaging- and **food industry** and for food-disinfection and plant protection will be presented.

Next to the presentations we invite you to join the workshop also to get into contact and discussion with experts and other participants to discuss current challenges and requirements as well as existing solutions on these topics.

We are looking forward to welcoming you in São Paulo!

Frank-Holm Roegner  
Head of Dept. Electron Beam  
Applications  
Fraunhofer FEP

Dr. Wilson Aparecido Parejo  
Director General  
Nuclear and Energy Research Institute  
National Nuclear Energy Commission

Andrea Junqueira  
German House for Research  
and Innovations

- Introductions to IPEN, Fraunhofer FEP and German House for Research and Innovation Sao Paulo

### **Technologies for environmental solutions and for life sciences, healthcare, medicine**

- Treatment of effluents
  - carried out by SABESP
  - by IPEN - electron accelerator
  - by Fraunhofer FEP - electron beam technology
  - by Escola Politécnica, USP - advanced oxidative processes
- Vaccine production - Instituto Butantã
- New procedures for producing safe and more effective vaccines – Fraunhofer FEP
- SteriHealth® compact sterilizer – Fraunhofer FEP
- Dengue / Zika Virus

### **Technologies for agriculture / food sector**

- Legislation - Ministry of Livestock Agriculture, Livestock and Fodder
- Conservation of grains / food - Embrapa
- Treatment of seeds / grain by electron beam technology – Fraunhofer FEP
- Conservation of food using electron beam - IPEN
- Sterilization / Hygiene of packaging – Fraunhofer FEP
- Sterilization of food packaging - IPEN

### 3. São Paulo – the intellectual capital of Brazil

A vast city, São Paulo is the intellectual capital of Brazil, and nowhere in the country is better for concerts, clubs, theatre, ballet, classical music, all-round nightlife, restaurants and beautifully designed hotels. From admiring modernist Niemeyer buildings in the centre to relaxing on the glorious beaches of the coast.

In line with the extraordinary growth, most of the historic buildings in the 20th century have given way to contemporary buildings. This means that most of the sights are concentrated in the entrance of the city center, where cathedrals from the 17th century are shaded by skyscrapers. The traditional ethnic neighborhoods are also concentrated around the city center. Shopping and eating can be everywhere in the city.

São Paulo is relatively unknown to the European tourist and often serves as a hub for the international airport of Guarulhos. The city has exciting attractions, a wide range of entertainment and impressive architecture. The metropolis is regarded as the economic motor of the whole country and now also relatively safe.



### 4. Travelling

The international airport São Paulo - Guarulhos (GRU) (Aeroporto da Cumbica) is located about 40 km outside the center in the north-east. He is flown from Germany directly by Lufthansa from Frankfurt and Munich as well as from TAM from Frankfurt. SWISS flies daily from Zurich. Corresponding offices have already been opened there. Regular connections are available from Guarulhos to every major airport in Europe. EMTU (bus) offers an airport service from various locations within Sao Paulos to the airports and also between the two airports Guarulhos (GRU) and Congonhas (CGH).

São Paulo's Metrô is modern, clean, safe, efficient. There are a total of five lines and good connections to the urban train network (= CPTM) or the EMTU (Omnibus long-distance). The Metrô runs between 4:30 and about midnight.

Taxis in São Paulo can be recognized by the white color. To stop a taxi, you can either get a sign by hand or go to one of the numerous taxi stands (Ponte de Taxi). At night it is recommended to take a taxi.

There are about 10,000 buses in Sao Paulo. For tourists, however, it is very difficult to find the right bus. Buses are the best public transport to get around the city, but they are not the fastest. Also, they can be hair-racking overloaded. If you want to travel by bus, you have to give a hand signal for holding the bus.

Hiring a car is not recommended.





## 5. General information

|   |  |                    |
|---|--|--------------------|
| <b>Conference Venue:</b>  | Instituto de Pesquisas Energéticas e Nucleares (IPEN/CNEN-SP),<br>Avenida Lineu Prestes, 2242- Cidade Universitária, CEP 05508-000 São Paulo<br><a href="http://www.ipen.br/">http://www.ipen.br/</a>  |                    |
| <b>Date / Conference hours</b><br>(tentative schedule)                | November 6, 2017   | 09.00 am – 5.00 pm |
|   | November 7, 2017   | 09.00 am – 5.00 pm |
| <b>Date / Exhibition hours</b><br>(tentative schedule)                | November 6, 2017   | 01.00 pm – 5.00 pm |
|   | November 7, 2017   | 09.00 am – 5.00 pm |
| <b>Registration:</b>  | <a href="http://www.fep.fraunhofer.de/accel">www.fep.fraunhofer.de/accel</a> ( <i>English, Portuguese</i> )<br>or mail to <a href="mailto:accel@fep.fraunhofer.de">accel@fep.fraunhofer.de</a>   |                    |
| <b>Workshop Contacts:</b>   | Dr. Solange Kazumi Sakata, IPEN ( <i>English, Portuguese</i> )<br>Mr. Frank-Holm Rögner, Fraunhofer FEP ( <i>German, English</i> )<br>Mr. Javier Portillo Casado, Fraunhofer FEP ( <i>German, English, Portuguese</i> )<br>Ms. Andrea Junqueira, DWIH ( <i>German, English, Portuguese</i> )   |                    |
| <b>Conference Management<br/>Industrial Exhibition<br/>Sponsoring</b> | IPEN - Instituto de Pesquisas Energéticas e Nucleares<br>Dr. Solange Kazumi Sakata<br>Avenida Lineu Prestes, 2242,<br>Cidade Universitária São Paulo – SP, CEP 05508-000, Brazil<br>Tel: +55 (11) 31339864<br><a href="mailto:accel@fep.fraunhofer.de">accel@fep.fraunhofer.de</a>   |                    |
| <b>Further contacts for<br/>miscellaneous questions</b>               | Ms. Raquel Nascimento ( <i>German, Portuguese</i> )<br>Fraunhofer Liaison Office Brazil<br>Rua Verbo Divino, 1488<br>04719-904 São Paulo – SP, Brazil<br>Tel.: +55 (11) 5187 5091<br><a href="mailto:raquel.nascimento@fraunhofer.org.br">raquel.nascimento@fraunhofer.org.br</a><br><br>Ms. Ines Schedwill, Fraunhofer FEP ( <i>German, English</i> )<br>Tel.: +49 351 8823 238<br><a href="mailto:accel@fep.fraunhofer.de">accel@fep.fraunhofer.de</a> |                    |
| <b>Workshop homepage:</b>   | <a href="http://www.fep.fraunhofer.de/de/events/accel">www.fep.fraunhofer.de/de/events/accel</a>   |                    |

## 6. Conference Venue

The conference venue is:

*Instituto de Pesquisas Energéticas e Nucleares (IPEN/CNEN-SP),  
Avenida Lineu Prestes, 2242- Cidade Universitária, CEP 05508-000  
São Paulo, Brazil*

IPEN – Nuclear and Energy Research Institute is a State of São Paulo autarchy, associated to the University of São Paulo – USP for educational purposes and supported and operated technically and administratively by the National Nuclear Energy Commission – CNEN, a federal agency of the Ministry of Science and Technology.

The Institute was founded in 1956 and is located at the campus of USP, in the city of São Paulo. The Institute has a scientific and technical staff of above 800 employees, among them 40% have M.Sc. or Ph.D. degree. IPEN is recognized as a national leader institution in research and development in the areas of radiopharmaceuticals, industrial applications of radiation, basic nuclear research, nuclear reactor operation and nuclear applications, materials science and technology, laser technology and applications.



## 7. Sponsorship, support and advertisement

Industrial representatives are offered various options to sponsor the workshop.

### Presentation of products or services

During the conference, the industrial exhibition in addition to the coffee breaks will be held in foyer of the conference room. The organizers reserve the right, in its sole discretion, to accept or deny applications for exhibition space and to allocate space among exhibitors.

### 7.1 Industrial Exhibition / Booth

**Conference venue:** **Instituto de Pesquisas Energéticas e Nucleares (IPEN/CNEN-SP),**  
Avenida Lineu Prestes, 2242- Cidade Universitária, CEP 05508-000 São Paulo  
Foyer: Exhibition / Poster / Catering

#### Fees:

The fee amounts                      BRL 4.000 / 1200 USD    up to 6 sqm + 17 % VAT  
   BRL 500 / 150 USD        per every further sqm  
   (maximum height 2,50 meters, the rental fee includes only the space and  
   one table, one chair and electricity)  
   Exhibitors will be mentioned as sponsors in the program book.

Booth staff                              up to 6 sqm:                      1 x booth staff included  
   every next 3 sqm:                1 x more booth staff included  
   BRL 400 / USD 120              every further booth staff

Charge covers admission to the conference, coffee breaks, lunch and the evening event.

#### Liabilities / Terms and conditions:

Space assignment will be made on a first come, first served basis. Wherever possible, space will be allotted according to the exhibitor's choice, but the final arrangement will be determined by IPEN in such a way as to produce the most advantageous grouping of the exhibition. There is no guarantee to any specific stand area within the exhibition area.

Applications for space must be received by October 20, 2017 to be listed in the program book as sponsor. IPEN reserved the right to short term changes.

The exhibitor is responsible for all other risks and further costs regarding the construction and support of the company's stand and insurance against civil liability and damages.

The exhibitor covers all other costs and risks in relation to the building and the construction and the support of the company's stand and has to take out an insurance policy against civil liability and damages. The total costs of the exhibit space must be paid before installation otherwise you are not allowed to install the booth.

#### Please note:

After the receipt of your application form your application is binding. In case of a cancellation we are allowed to charge a cancellation fee in the amount of 50% of the ordered services. In case of a cancellation after October 20, 2017 there will be no refund.

If you are interested in the participation of the AcEL Workshop in Sao Paulo, Brazil in November 2017, we ask you to fill in the application form, you find enclosed.

#### Storage, Set up and dismantling

Because of the limited storage space we can not guarantee to fulfil all requirements concerning the storage. Please take this into your consideration for the delivery of your material. IPEN assumes no liability for damage and theft. Times for set up and dismantling as well as information on sending materials will inform be announced at latest 4 weeks prior to the conference.

## 7.2 Advertisement final program

|  |           |          |            |
|--|-----------|----------|------------|
| Outside Back Cover (4 <sup>th</sup> cover page)* | 4.000 BRL | 1200 USD | + 17 % VAT |
| Inside Front Cover (2 <sup>nd</sup> cover page)* | 3.000 BRL | 900 USD  | + 17 % VAT |
| Inside Back Cover (3 <sup>th</sup> cover page )* | 3.000 BRL | 900 USD  | + 17 % VAT |
| *Colour: 4 coloured advertisement                |           |          |            |
| Full page – Interior‘                            | 2.000 BRL | 600 USD  | + 17 % VAT |
| ½ page – Interior‘                               | 600 BRL   | 180 USD  | + 17 % VAT |
| ‘ Colour: black/white, 4 colours on request      |           |          |            |

The contractor is responsible for the graphic design of the advertisement. The advertisement material has to be delivered ready to press and at the expenses of the contractor. The position of the advertisement is assigned on a first-come, first-service basis until sold out.

## 7.3 Additional Options for Sponsorship / Packages

### Packages

|   |            |          |            |
|---|------------|----------|------------|
| <b>Sponsor Package 1 – Gold</b>   | 11.000 BRL | 3300 USD | + 17 % VAT |
| <ul style="list-style-type: none"> <li>- Insert of company flyers in the workshop bags</li> <li>- Full page advertisement in the final program ( 2<sup>nd</sup> cover page)</li> <li>- your logo by adding “Gold Sponsor” on the sponsoring list in the final program</li> <li>- your logo on the AcEL-Workshop homepage with link to your webpage</li> <li>- 2 workshop registrations</li> </ul> |            |          |            |

|   |           |          |            |
|---|-----------|----------|------------|
| <b>Sponsor Package 2 – Silver</b>   | 4.000 BRL | 1200 USD | + 17 % VAT |
| <ul style="list-style-type: none"> <li>- Insert of your flyers in the workshop bags</li> <li>- Full page advertisement interior in the final program</li> <li>- 1 workshop registration</li> <li>- your logo on the AcEL-Workshop homepage with link to your webpage</li> </ul> |           |          |            |

### Other Items

|  |           |          |            |
|--|-----------|----------|------------|
| Leaflets in the workshop bags (max. 5 pages DIN A4)            | 400 BRL   | 120 USD  | + 17 % VAT |
| Workshop delegates name badge with logo of the sponsor         | 1.100 BRL | 330 USD  | + 17 % VAT |
| Financial support of the Evening on November 6 or 7, 2017 from | 5.000 BRL | 1500 USD | + 17 % VAT |
| Sponsoring of a coffee break/ lunch from                       | 5.000 BRL | 1500 USD | + 17 % VAT |
| Providing of Bags with logo of the sponsor                     |           |          |            |
| – costs of material + sponsoring fee                           | 2.000 BRL | 600 USD  | + 17 % VAT |
| Providing of writing materials (writing pads, pens)            |           |          |            |
| - costs of material + sponsoring fee                           | 1.300 BRL | 400 USD  | + 17 % VAT |

**If you have special wishes or other ideas, please do not hesitate to contact us:**

[acel@fep.fraunhofer.de](mailto:acel@fep.fraunhofer.de)

If you are interested in sponsoring and/ or an exhibition please fill in the enclosed form.

All sponsoring and advertising services will be agreed between IPEN and your company. After sending your application form, you will get a confirmation.

For further information do not hesitate to contact:

IPEN - Instituto de Pesquisas Energéticas e Nucleares <http://www.ipen.br/>

Dr. Solange Kazumi Sakata

Avenida Lineu Prestes, 2242,

Cidade Universitária São Paulo – SP, CEP 05508-000, Brazil

Phone: +55 (11) 31339864

Email: [acel@fep.fraunhofer.de](mailto:acel@fep.fraunhofer.de)





# EXHIBITION / SPONSOR Application Form

Workshop Accelerated Electrons for Life - AcEL  
November 6 – 7, 2017 in São Paulo | Brazil

Please fill in the form and send it back until **October 20, 2017** to:

**IPEN - Instituto de Pesquisas Energéticas e Nucleares**

**Dr. Solange Kazumi Sakata, [acel@fep.fraunhofer.de](mailto:acel@fep.fraunhofer.de), Tel.: +55 (11) 31339864**

|                                  |      |
|----------------------------------|------|
| Company Name:                    |      |
| Name of the Contact Person:      |      |
| Address: Street / Zip Code/ City |      |
|                                  |      |
| Phone:                           | Fax: |
| E-mail:                          |      |

## We order as follows:

### Exhibition

☐ We would like to have a booth

**Booth size:** \_\_\_\_\_ sqm      Size: length \_\_\_\_\_ m x width \_\_\_\_\_ = \_\_\_\_\_ m<sup>2</sup>

Special requests: \_\_\_\_\_

### Advertisement in Final Program:

- |   |           |           |             |
|---|-----------|-----------|-------------|
| <input type="checkbox"/> Outside Back Cover (4 <sup>th</sup> cover page): | 4.000 BRL | 1.200 USD | (+17 % VAT) |
| <input type="checkbox"/> Inside Front Cover (2 <sup>nd</sup> cover page): | 3.000 BRL | 900 USD   | (+17 % VAT) |
| <input type="checkbox"/> Inside Back Cover (3 <sup>rd</sup> cover page):  | 3.000 BRL | 900 USD   | (+17 % VAT) |
| <input type="checkbox"/> Full page – Interior:                            | 2.000 BRL | 600 USD   | (+17 % VAT) |
| <input type="checkbox"/> ½ page – Interior:                               | 600 BRL   | 180 USD   | (+17 % VAT) |

### Sponsoring

- |  |            |           |             |
|--|------------|-----------|-------------|
| <input type="checkbox"/> Sponsor Package 1 – Gold  | 11.000 BRL | 3.300 USD | (+17 % VAT) |
| <input type="checkbox"/> Sponsor Package 2 – Silver  | 4.000 BRL  | 1.200 USD | (+17 % VAT) |
| <input type="checkbox"/> Leaflets in the workshop bags:  | 400 BRL    | 120 USD   | (+17 % VAT) |
| <input type="checkbox"/> Conference delegates name badge with logo of the sponsor                                | 1.100 BRL  | 330 USD   | (+17 % VAT) |
| <input type="checkbox"/> Sponsoring of a coffee break / lunch starting from                                      | 5.000 BRL  | 1.500 USD | (+17 % VAT) |
| <input type="checkbox"/> Sponsoring of the evening event starting from   | 5.000 BRL  | 1.500 USD | (+17 % VAT) |
| <input type="checkbox"/> Providing of congress bags with logo of the sponsor (cost of material + sponsoring fee) | 2.000 BRL  | 600 USD   | (+17 % VAT) |
| <input type="checkbox"/> Providing of writing materials (writing pads, pens) (cost material + sponsoring fee)    | 1.300 BRL  | 400 USD   | (+17 % VAT) |
| <input type="checkbox"/> Sponsoring to support the conference, amount:   | _____ BRL  | _____ USD | (+17 % VAT) |

Others: \_\_\_\_\_

### Cancellation:

Once having received your application, you will get a confirmation of IPEN. The registration will be binding. We will confirm your requested booth space or sponsoring immediately. We will send you a confirmation in which you have to make specifics concerning required electricity, tables, chairs and others. You will receive an invoice by IPEN. The charge for exhibition space, advertisement and booth staff is payable within 14 days of the invoice date. Notification of cancellation should be sent in writing to IPEN. If the cancellation is received before October 20, 2017 50% of the total amount paid will be refunded, no refund thereafter. Substitution is possible.

**Herewith I agree to the above (incl. general conditions). I will receive a contract with detailed information I have to send back within 10 days. After receipt of the invoice I transfer the due amount within 14 days.**

.....  
Signature

.....  
Company name, stamp

.....  
Date