

# ND 2016

## 11-16 / 09

## BRUGES BELGIUM



FIRST ANNOUNCEMENT

### INVITATION

- ▶ ND2016 is the primary conference for the advancement of nuclear data in the interest of both science and technology. It addresses all important active fields of investigation: fundamental nuclear physics, astrophysics, nuclear energy, nuclear medicine, nuclear non-proliferation, safeguards and arms control.
- ▶ Data characterizing nuclear structure, decay modes and reactions are of paramount importance in many fields of research and application. Design studies, safety analyses, interpretations of tests, benchmarks and experiments as well as the need to address fundamental questions in both basic science and applications rely on good quality nuclear data. Significant progress is being made towards more comprehensive in-depth physics modelling through improved computing and data handling. Access to good quality nuclear data is a well-recognized pre-requisite for such successful analyses and reliable predictions.
- ▶ Establishing high quality nuclear databases tailored to the needs of very diverse fields of use encompasses activities that range well beyond a mere compiling of numbers reported in the literature. Areas where data are lacking, conflicting or of insufficient accuracy need to be actively identified and tackled by well-focussed experiments, modelling and evaluation. Complete databases must be established that are capable of serving all needs and tailored to the appropriate computing codes through proper regard of such aspects of physics as thermal scattering, self-shielding, anisotropy and the Doppler effect. Validation and verification of these databases in benchmarks, mock-up tests and responding to feedback from users are crucial steps towards adoption of a new nuclear data library by the end-users.
- ▶ Breakthroughs in experiments and theory are often the basis of technological progress. Recognizing this important fact, ND2016 will provide an appropriate forum for the communication of developments in fundamental nuclear physics research that may be beneficial to the nuclear data and allow interactions and exchange of experiences among the applications communities.
- ▶ The organisers of ND2016 invite all scientists and engineers interested in one of the topics of the conference to present their insights and achievements. The organisers are encouraging young scientists and engineers to participate through a reduced conference fee.
- ▶ This conference is part of a series of previous conferences organized in Harwell, UK (1978), Antwerp, Belgium (1982), Santa Fe, USA (1985), Mito, Japan (1988), Jülich, Germany (1991), Gatlinburg, USA (1994), Trieste, Italy (1997), Tsukuba, Japan (2001), Santa Fe, USA (2004), Nice, France (2007), Jeju island, South Korea (2010) and New York, USA (2013).
- ▶ The aim of these conferences is to create a forum for the presentation and discussion of all aspects of nuclear data and their applications. The conference will include a wide variety of nuclear data topics including:

### TOPICS

- ▶ Nuclear reaction measurements, analysis and evaluation
- ▶ Nuclear masses, structure and decay data measurements
- ▶ Nuclear reaction and structure theory, models and codes
- ▶ Fission physics and observables
- ▶ Spallation, high and intermediate energy reactions
- ▶ Nuclear physics of fusion
- ▶ Astro nuclear physics
- ▶ Experimental facilities, equipment, techniques and methods
- ▶ Integral experiments, benchmarks and data validation
- ▶ Importance of nuclear data for reactor operation and safety
- ▶ Importance of nuclear data for other applications
- ▶ Nuclear data in science and engineering
- ▶ Medical radioisotopes production
- ▶ Particle therapy
- ▶ Properties of medical radioisotopes
- ▶ Novel radioisotope production methods
- ▶ Evaluated libraries, processing and consistency
- ▶ Evaluation methodology
- ▶ Uncertainty and covariance generation and propagation
- ▶ Thermal scattering laws and libraries
- ▶ Dissemination, data formats and storage
- ▶ Education

## CONGRESS VENUE

- ▶ Bruges is the capital and largest city of the province of West Flanders. Bruges has most of its medieval architecture intact. The city of Bruges is frequently called : “The Medieval Manhattan”. This historic city centre is a prominent World Heritage Site of UNESCO. Thanks to its central location in Flanders, Bruges is very easily accessible: just 1 hour away from Brussels international airport, 45 min from Brussels Midi railway Station.
- ▶ The Conference will be held at the Oud Sint-Jan, a historic building in the heart of the city near the canals. Oud Sint-Jan served as a hospital from the Middle Ages till the nineteenth century and is nowadays being used as a modern Congress Centre. The congress venue, the hotels and the places for the social program are all within walking distance from the railway station.

## GENERAL CHAIRS

- ▶ Vladimir Sucha,  
Director-General Joint Research Centre, European Commission
- ▶ William D. Magwood, IV,  
Director-General OECD Nuclear Energy Agency

## ORGANIZING COMMITTEE

- ▶ Arjan Plompen (chair)
- ▶ Wim Mondelaers
- ▶ Peter Siegler
- ▶ Carmen Cabanillas Platero
- ▶ Franz-Josef Hamsch
- ▶ Jan Heyse
- ▶ Stefan Kopecky
- ▶ Stephan Oberstedt
- ▶ Peter Schillebeeckx

## ORGANISED BY

- ▶ Joint Research Centre, European Commission



### IMPORTANT DATES & DEADLINES

- ▶ Abstract submission deadline: **17/01 2016**
- ▶ Registration open: **17/11 2015**
- ▶ Early registration deadline: **11/07 2016**
- ▶ Deadline for contribution: **16/09 2016**

[www.nd2016.eu](http://www.nd2016.eu)

International Conference on Nuclear Data for Science and Technology

# Procedure for Requests for Financial Support for Participants from Member States Eligible to Receive Assistance under the IAEA's Technical Cooperation Programme

## **International Conference on Nuclear Data for Science and Technology (ND2016)**

**Bruges, Belgium**

**11–16 September 2016**

The International Atomic Energy Agency (IAEA) has limited funds at its disposal to help meet the costs of attendance at the conference by selected specialists from Member States eligible to receive technical assistance under the IAEA's technical cooperation programme. Generally, not more than one grant will be awarded to any one country.

If Governments wish to apply for a grant on behalf of one of their specialists they should address specific requests to the Director General of the IAEA to this effect. Governments should ensure that applications for grants are:

- Submitted by **14 March 2016**
- Accompanied by a duly completed and signed Grant Application Form (as attached) giving detailed information on the scientific qualifications of the candidate and sent through the competent official authority

Applications which do not comply with the above conditions cannot be considered.

The grants awarded will be in the form of a lump sum, usually covering part of the cost of attendance.

Address for applications for grants:

Director General  
International Atomic Energy Agency  
Vienna International Centre  
PO Box 100  
1400 VIENNA  
AUSTRIA

Enclosure: Grant Application Form (Form C)



# Grant Application Form

## International Conference on Nuclear Data for Science and Technology (ND2016)

**Bruges, Belgium**

**11–16 September 2016**

To be completed by the applicant and sent to the competent official authority (e.g. Ministry of Foreign Affairs, Permanent Mission to the IAEA, or National Atomic Energy Authority) of his/her country for subsequent transmission to the International Atomic Energy Agency (IAEA), Vienna International Centre, PO Box 100, 1400 Vienna, Austria, either electronically by email to: [Official.Mail@iaea.org](mailto:Official.Mail@iaea.org) or by fax to: +43 1 26007 (no hard copies needed).

To be completed only by participants from developing countries on whose behalf a grant is requested.

### Deadline for receipt by IAEA through official channels: 14 March 2016

Full name:	Mr/Ms:
Postal address:	Phone:
	Fax:
	Email:
Date of birth (year/month/day):	Nationality:

#### 1. Education (post-secondary):

Name and place of institution	Field of study	Diploma or Degree	Years studied	
			from	to

#### 2. Recent employment record (starting with your present post):

Name and place of employer/ organization	Title of your position	Type of work	Years worked	
			from	to

#### 3. Description of work performed over the last three years:

#### 4. Institute's/Member State's programme in field of conference:

.....  
 Date Signature of applicant

.....  
 Date Name and title (printed) and signature of responsible Government official