

The Sixteenth International Conference  
on the Science and Application of Nanotubes

Fundraising prospectus

## The Sixteenth International Conference on the Science and Application of Nanotubes

(NT15)

With the rapid advancement of applications and practical uses in such fields as electrical and electronic devices, composite materials, environmental & energy-related materials, and the biomedical field, carbon nanotubes (CNT) and related nano-carbon substances & materials have become irreplaceable substances and materials for human society in the 21st century. The practical use of touch panels with a transparent conductive film for CNTs, which have replaced ITOs, has already begun in various fields such as smart phones, since several years ago. High expectations are held of CNTs as touch panels for future flexible displays.

R&D in Japan—where CNTs were first discovered by a Japanese researcher—for CNTs and related nano-substances & materials has always led the world at the cutting-edge level throughout its long history. It has been 20 years since the discovery of CNTs, and the progress of R&D remains rapid. For this reason, irrespective of the basics, applications, and practical uses, announcement of the progress of the latest research, exchanges of views, and discussions have become essential at international forums.

A great number of international conferences and symposiums on CNTs have been held annually in countries around the world. This International Conference on the Science and Application of Nanotubes (usually abbreviated as the NT Conference) is the most authoritative and long-established conference on CNTs. It is a large-scale conference with around 500 participants. Since 1999 when the first NT Conference was held in East Lansing, Michigan, U.S., the NT Conference has been held annually, mainly in the U.S., Europe, and Asia. The next NT Conference to be held in Nagoya will be the 16th such conference (NT2015, abbreviated as NT15).

Holding the NT Conference—the largest and most authoritative international conference on CNTs—in Japan will not only contribute to Japan's further development of the R&D of CNTs, but also provide extremely important forums intended to exchange and share the latest information about the R&D of CNTs around the world. At the same time, having promoted active participation and discussions by young researchers and grad students since the first conference, this international conference provides young researchers—who will lead the R&D of the next-generation CNTs and related materials—with golden opportunities to directly interact with the world's top researchers who are conducting the most advanced research in the world. We strongly believe that these elements will lead to the great development of future R&D of nano-carbon in Japan.

In view of keeping the operation of the 16th NT Conference to be held in Japan as simple as possible, we hoped that necessary expenses would be appropriated from membership fees collected from the participants. However, as we wish to invite as many excellent researchers as possible to attend the Conference, and to improve the content of the Conference for greater achievements, it is difficult for us to cover all the necessary expenses with participation fees alone. Indeed, we have no choice but to ask people from various fields for their support and cooperation. In line with this, we would appreciate it if you would consider the purpose explained above, and make a donation to the Conference. We are grateful for your support.

## The NT15 Organizing Committee

Co-chair	Hisanori Shinohara (Nagoya University)
Co-chair	Sumio Iijima (Meijo University, Nagoya University, National Institute of Advanced Industrial Science and Technology)
Co-chair	Morinobu Endo (Shinshu University)
Committee Member	Hiroki Ago (Kyushu University)
Committee Member	Yoshinori Ando (Meijo University)
Committee Member	Toshiaki Enoki (JST. Tokyo Institute of Technology)
Committee Member	Yutaka Ohno (Nagoya University)
Committee Member	Haruka Omachi (Nagoya University)
Committee Member	Ryo Kitaura (Nagoya University)
Committee Member	Shunji Bandow (Meijo University)
Committee Member	Kenji Hata (AIST)
Committee Member	Takuya Hayashi (Shinshu University)
Committee Member	Yoshikazu Homma (Tokyo University of Science)
Committee Member	Hiromichi Kataura (AIST)
Committee Member	Toshiaki Kato (Tohoku University)
Committee Member	Shigeo Maruyama (The University of Tokyo)
Committee Member	Kazunari Matsuda (Kyoto University)
Committee Member	Yoshiyuki Miyamoto (AIST)
Committee Member	Naotoshi Nakashima (Kyushu University)
Committee Member	Suguru Noda (Waseda University)
Committee Member	Susumu Okada (University of Tsukuba)
Committee Member	Toshiya Okazaki (AIST)
Committee Member	Riichiro Saito (Tohoku University)
Committee Member	Susumu Saito (Tokyo Institute of Technology)
Committee Member	Takeshi Saito (AIST)
Committee Member	Yahachi Saito (Nagoya University)
Committee Member	Kazutomo Suenaga (AIST)
Committee Member	Taishi Takenobu (Waseda University)
Committee Member	Shigeki Tomonoh (AIST)
Committee Member	Masako Yudasaka (AIST)
Committee Member	Stephan Irle (Nagoya University)

## Conference outline

### 1. Conference name and theme

#### 1) Conference name

Japanese name: 第16回ナノチューブ科学と応用に関する国際会議

English name: The Sixteenth International Conference on the Science and Application of Nanotubes (abbreviated as NT15)

#### 2) Conference theme

“Science, application, and practical use of carbon nanotubes and related substances such as Graphene”

### 2. Names of organizing and cosponsoring bodies

#### 1) Organized by:

The NT15 Organizing Committee

#### 2) Co-hosted by:

The Fullerenes, Nanotubes and Graphene (FNG) Research Society

The “Science of Atomic Layers,” Grant-in Aid for Scientific Research on Innovative Areas from the Ministry of Education, Culture, Sports, Science and Technology (MEXT) of Japan

### 3. Period

June 28 (Sun) - July 3 (Fri), 2015

### 4. Venue

Main venue: The Toyoda Auditorium of Nagoya University, Sub venue: A building in the Higashiyama Campus, Nagoya University

Furo-cho, Chikusa-ku, Nagoya City, 464-8601

Phone: +81-52-781-5111

### 5. Persons in charge of organizing the Conference

The Sixteenth International Conference on the Science and Application of Nanotubes

Organizing Committee Co-chairs: Hisanori Shinohara, Sumio Iijima, Morinobu Endo

Conference Secretariat: Inter Group Corp.

Orchid Building 8F, 2-38-2, Meieki, Nakamura-ku, Nagoya City, 450-0002, Japan

Tel: +81-52-581-3241, Fax: +81-52-581-5585, Email: nt15@intergroup.co.jp

## 6. Background of holding the Conference in Japan

This is second time that the Conference will be held in Japan since the 7th Conference, held in Nagano City in June 2006. At the council meeting held during the period of the 14th International Conference on the Science and Application of Nanotubes held in June 2013 in Helsinki (Finland), the decision was made to advertise for candidate sites for the 16th Conference. In response, Nagoya and Singapore announced themselves as candidates, and at the council meeting held in September 2013, the official decision to hold the 16th Conference in Japan (Nagoya) was made. In Japan, efforts to lure the Conference to Japan had been actively made mainly by the Fullerenes, Nanotubes and Graphene (FNG) Research Society since the preparation stage, which led to success in inviting the Conference. The Conference is fully backed and co-hosted by the FNG Research Society and the “Science of Atomic Layers,” Grant-in Aid for Scientific Research on Innovative Areas from the Ministry of Education, Culture, Sports, Science and Technology (MEXT) of Japan.

Details of the previous conferences are as follows:

Year	Host countries	No. of participating countries	No. of participants	No. of Japanese participants
2006 (7th conference)	Japan (Nagano)	27	600	50
2009 (10th conference)	China (Beijing)	23	800	30
2010 (11th conference)	Canada (Montreal)	23	500	30
2011 (12th conference)	UK (Cambridge)	21	600	30
2012 (13th conference)	Australia (Brisbane)	22	550	40
2013 (14th conference)	Finland (Espoo)	22	600	30
2014 (15th conference)	U.S. (Los Angeles)	22	600	40

## 7. Purpose and significance of the Conference to be held in Japan

Carbon nanotubes are a nano-carbon substance / material that Japanese researchers discovered in Japan and that they can rightfully boast to the world. Japan has long excelled in R&D over other countries from both the quality and quantity aspects. Furthermore, Japan has the Fullerenes, Nanotubes and Graphene (FNG) Research Society, a research society specializing in nano-carbons

with approximately 800 members and with hardly any real precedent in the world, and which has played a leading role in related fields for the past quarter of a century. Many of the committee members of this international conference (NT15) are FNG Research Society members. Against such a backdrop, holding this Conference—the most authoritative and long-established in the world in the fields of carbon nanotubes and nano-carbons—in Japan is very meaningful for researchers from the industrial, academic and governmental sectors, as well as for the development of Japan in a broad sense.

This international conference is a very important forum intended to exchange and share the latest information on the R&D of CNTs from around the world, as well as to further develop Japan's R&D of CNTs. Also, this international conference has promoted active participation by and discussions among young researchers and grad students since the first conference, and provides young researchers—who will lead the R&D of the next-generation CNTs and related materials—with golden opportunities to directly interact with the world's top researchers who conduct the most advanced research in the world. We strongly believe that this conference should lead to great development of future R&D of nano-carbon in Japan.

## 8. Outline of the conference plan

### 1) Conference schedule

June 28 (Sun)	Satellite symposium
June 29 (Mon)	Opening ceremony Conference (oral presentations, poster session) Welcome party
June 30 (Tue)	Conference (oral presentations, poster session)
July 1 (Wed)	Conference (oral presentations, poster session) Excursion, Banquet
July 2 (Thu)	Conference (oral presentations, poster session)
July 3 (Fri)	Conference (oral presentations, poster session) Closing ceremony (ending in the morning)

### 2) Main topics

Themes related to the basics, application and practical use of carbon nanotubes,  
Graphene and two-dimensional atomic layer materials

3) No. of scheduled participants

Domestic:	300
Overseas:	300
Total	600

4) Scheduled participating countries: 24 countries and regions

The U.S., Canada, Mexico, China, South Korea, Taiwan, Hong Kong, Singapore, Thailand, the UK, Germany, France, Spain, Switzerland, Denmark, the Netherlands, Sweden, Finland, Norway, Belgium, Italy, Austria, Australia, and India

5) Language to be used at the Conference

English

9. Why are donations needed?

The total expenses for the preparation and operation of the Conference are estimated to be 38,475,000 yen. Although our official stance in principle is to cover these expenses with the participation and registration fees collected, in practice we have no choice but to rely on support from companies and organizations to cover the deficit of 5,000,000 yen, which is calculated by subtracting 28,475,000 yen, which is the amount to be covered by participants (including participation fees), and 5,000,000 yen of subsidies, etc., from the total expenses of 38,475,000 yen. Therefore, we would like to appropriate the expenses listed below from donations contributed by related supporting companies.

10. Revenue and expenditure budget (draft)

Unit: Thousand yen

Type	Amount
(Revenue)	
1. Fees to be covered by participants (participation and registration fees, etc.)	28,475
2. Grant-in-aid / subsidies, etc.	5,000
3. Donations, etc.	5,000
Total revenue	38,475

(Expenditure)	
1. Preparation fees for the Conference	8,647
2. Operation fees for the Conference	27,827
3. Costs for exhibitions, etc.	510
4. Expenses for fund-raising	256
5. Expenses for postprocessing	1,235
Total expenditure	38,475

11. Details of fundraising for donations

(1) Name of fundraising

Donations for the Sixteenth International Conference on the Science and Application of Nanotubes

(2) Target amount of donations

5,000,000 yen (out of a total scheduled expenditure of 38,475,000 yen)

(3) Period of fund-raising

July 1 (Tue), 2014 - June 27 (Sat), 2015

(until the day before the opening of the Conference)

(4) Uses of donations

Donations will be appropriated for expenses related to the preparation and operation of the Sixteenth International Conference on the Science and Application of Nanotubes.