

FEC 2010 TIMES



Transportation

✦ Limousine from Daejeon to the Incheon Int'l Airport(ICN)

The limousines(Deluxe) run at intervals of about 20-40min from 03:30 to 19:25 and its travel time is 180- 200 min.

Bus Stop : Daedeok Lotte Hotel or Daejeon Government Complex' station.

Bus Fares : KRW 22,200

✦ Shuttle Services for Departure

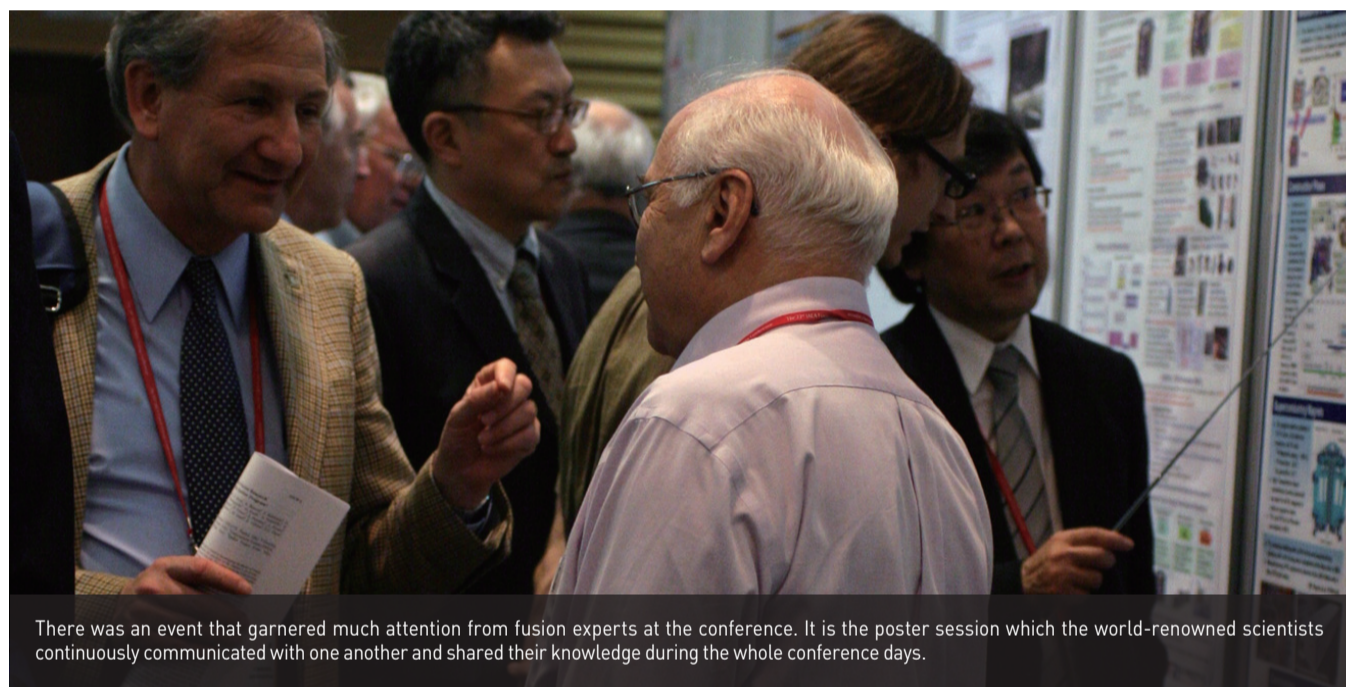
Route : Conference Hotels ⇒ Government Complex ⇒ Daejeon Station
Time : Oct 16 8 times from 8:55~13:25/ Oct 17 6 times from 07:55~10:25



Announcement

The 24rd IAEA Fusion Energy Conference will be held on 8-13 October at the Hilton San Diego Bayfront in U.S.A (<http://fec2012.com>) See you again in two years!

Fusion Energy Is 'Dream Energy,' The Hope for Humanity



There was an event that garnered much attention from fusion experts at the conference. It is the poster session which the world-renowned scientists continuously communicated with one another and shared their knowledge during the whole conference days.

The end of the 23rd IAEA Fusion Energy Conference, the most prestigious conference in the nuclear fusion field, has come upon us. They say that fusion energy notables were amazed at the largest conference in scale and expressed their satisfaction with the event, which went on without a hitch.

The conference is also called the Fusion Olympics, in that the world-renowned fusion energy scientists participate to share their achievements and visions. In fact, more than 1,500 top experts from 39 countries and three international organizations, in the nuclear fusion R&D field, gathered to present 596 dissertations during the event. The prominent scientists, who came together two years after the IAEA FEC 2008, held in Geneva, exchanged their accomplishments and the latest trends in their own countries.

① Fusion Energy Is 'Dream Energy,' Carrying the Hope For Humanity.

At the opening ceremony, Korean Prime Minister, Hwang-Sik Kim defined that, "Fusion energy into which you pour your passion is a 'green energy', free from burden on the environment and a 'dream energy' carrying the hope of humankind."

Following the opening ceremony where the dignitaries, including Korean policy makers, had participated in the overview session, that took place for presentations, to learn about the development of major equipment for fusion energy. The achievements were presented in different areas; magnetic fusion equipment, magnetic fusion theory, modeling, ITER, inertial fusion equipment and theory, fusion technology, fusion generation design, fusion energy safety and the environment, and economical feasibility of fusion energy. The presentations made the conference room robust and alive.

② Poster Session, The Knowledge Sharing Forum Among Experts

The session was filled with excitement, indeed. Fusion specialists had heated debates with one another and were impressed by various research accomplishments.

A participant said, "It was a great time that I could become a friend with a stranger if we share the interest. I learned a lot. Beyond the known facts, the thoughts and opinions of scientists that I had a talk with will be of much help to my future research."

③ New Events at IAEA FEC 2010

Different from the previous conferences, IAEA FEC 2010 prepared several special events. On the 11th, the 'Fusion Technology Exhibition' was opened to display fusion related technologies. Among the exhibitors were companies that joined to build KSTAR, a Korean superconducting tokamak, and high-tech companies that are participating to construct ITER.

The 'When Science Meets Art' exhibition featured pieces of the new realm, in which science and art merge, and gave a fresh excitement to visitors. The Korean organizers of the exhibition planned the event in a way that 'fusion' could convey meaningful messages through the fusion between science and art.

Besides, more special events where participants could experience Korean tradition and culture continuously took place around the conference venue, such as Korean traditional performances shown during the Welcome Party and Gala Dinner, with Korean food sampling.

④ IAEA FEC 2010 Participants Were Thankful For Kindness.

C.J Lasnier, who was enjoying Korean traditional songs around the venue said, "It is a very well organized conference." He added that, "It is my first time to attend IAEA FEC and I'm very satisfied. I made a poster presentation last Wednesday and lots of people were interested, which made the discussion fruitful. I was quite impressed by other scientists' presentations."

Mitsuru Honda from Japan Atomic Energy Agency noted that, "It is my honor to make a presentation at the FEC where fusion researchers, working in different fusion fields, gathered together. Scientists, who came for my poster session, offered valuable opinions for me." He also added, "My only complaint was that the bus schedule in the morning to the conference hall was a bit uncomfortable."

Lubov, wife of a fusion scientist from America said that she was touched by the beauty of Korea. She also expressed appreciation by saying, "I joined many tour programs and I had a great time. Korean people were so friendly. When I got lost, they found the way for me, in person. It was great."

The IAEA Secretariat said, "It was a beautifully organized event. Korea, the host country, was so helpful and well prepared," and added, "Though the event was larger than used to, in scale, it went well. The scientists actively iterated with one another, which made the event come into much fruition."

GREETING

Gyung-Su Lee International Fusion Research Council Chairman

"Looking Back At the 23rd IAEA FEC"

The Fusion Energy Olympics 2010, opened in much success with the presence of Prime Minister Hwang-sik Kim on the Monday morning of October 11th. It will finish today after the summery session and the closing ceremony. The IYC held passionate lectures by world-renowned experts for young future scientists on Saturday the 9th and Green Forum sent messages to policy makers on Sunday the 10th. Looking back, all these events prior to the official opening ceremony heightened the expectations of IAEA FEC 2010.

More than 1,500 top specialists in the global

fusion energy community gathered in one place, this time in Daejeon. It is a rare occasion that takes place once in about twenty years. Therefore, the quality of research accomplishments that are presented is of great importance. My colleagues rated the event highly and said it is not just the biggest in scale, but also the best in quality. As the chairman of the International Fusion Research Council (IFRC), I was elated to hear that the event opened the ITER era and stirred the passion for fusion energy development. In addition, the IAEA FEC 2010 served an



opportunity to let the world know about "Dynamic Korea", a nation of culture. The various events, including 'When Science Meets Arts', 'Welcoming Party', 'Gala Dinner', and 'Green Festival', received positive responses from the international participants. I am happy that all of them contributed to the spread of 'Korean Wave' and to the national dignity of Korea. Now, IAEA FEC 2010 is coming to an end after all the highlights of the events that were covered in the three issues of 'FEC 2010 Times.' What's left is the summery session, during which important research achievements are presented. After the nervous hours have passed, and recalling happy moments, I am thankful for this experience during the conference. I hope that the Fusion Olympics will have a great closing, and I'd like to sing 'Time to Say Goodbye' for all of you with the expectation that we will meet again at a beautiful port city, San Diego, in October 2012.

Steven A. Sabbagh and John Rice won the Nuclear Fusion Award



At the welcoming reception, on the evening of the 11th, the Nuclear Fusion Award Ceremony was held. The winner for 2009 is Steven A. Sabbagh and

John Rice was named the winner for 2010. Sabbagh is a world-renowned plasma physicist, author or co-author of over 200 scientific publications, and leader of the NSTX experimental research group on fusion plasma stability. John Rice has participated in the Alcator series of tokamaks(Alcator A, Alcator C, and C-Mod) since 1974, and has collaborated with experiments at Heliotron E, TFTR, and LHD.



A vivid scene

Beautiful fireworks filled the night of Gala Dinner at IAEA FEC 2010.



INTERVIEW Osamu Motojima, Director General of the ITER Organization

“Impressed By Korea’s Strong Will For Fusion Energy Policies”

“Korea, through the successful IAEA FEC 2010, has shown the true capabilities for fusion energy development. The conference will serve a meaningful time for many scientists from all around the world to present their research accomplishments. Having witnessed Korea’s high ranking government officials actively participating in the event, in person, I could feel Korea’s strong will to pursue fusion energy policies.” In the interview, Director General Motojima said, “I was deeply impressed by the active development of fusion energy in Korea.” He noted that, “As time goes by, the fusion energy research is gaining speed to develop. Fusion energy will offer the greatest help to tackle the energy crisis that the world is facing,” and added, “I hope that more people would learn of its practicality and potential.” Regarding the process of the ITER project, the Director

General said, “As with all the other projects, it is true that an international project also has its own strengths and weaknesses. Since the ITER project seeks unanimous consent during the process, close cooperation between member countries is critical. We’re making every effort to become a satisfactory settlement among members.” He expects that we will be able to produce 1 GW of fusion energy in thirty years, which is being considered to be the commercialization mark. In order to achieve this, he argues that we need to gain more interest and understanding from people. In addition, Director General Motojima stressed that, “Basically we need to have not only short term, but also long term responsibility for energy policies. And it is important to let more people understand about the details of technical issues.”

PHOTO & MEMORY



1. Nanta Performance at the Gala dinner
2. Green Forum on October 10th
3. Souvenirs that shows the Korean traditional beauty
4. Opening message by Korean Prime Minister
5. The 'When Science Meets Art' exhibition
6. 'Fusion Tech Exhibition 2010'
7. Nuclear fusion experts visiting KSTAR

“What A Surprise!” Experts Fascinated by KSTAR

Fusion Specialists participating in the IAEA FEC 2010 visited the Korean tokamak KSTAR. Scientists joining in IAEA FEC 2010 have had an on-site visit to KSTAR, a tokamak-type fusion device built by Korean domestic technologies at the Nuclear Fusion Research Institute. International fusion experts visited to the NFRF and toured superconducting tokamak KSTAR and its control room. They were also introduced to major experiments and the future plan. The tour was scheduled after the overview presentation about the operating achievements of KSTAR during the first session on the opening day, the 11th. Therefore, many of FEC2010 participants showed heightened

interest in KSTAR.

One of FEC participant who joined in the KSTAR tour said, “I was surprised at the fast-developing nuclear fusion research in Korea. I expect that the accomplishments based on stable experiments by KSTAR will offer much help in solving many issues, including the ITER operation, to commercialize fusion energy, NFRF President Dr. G.S. Lee noted, “IAEA FEC 2010 participants are expressing much interest in KSTAR. I expect that the visit to the KSTAR will bring various global joint research offers, utilizing KSTAR in the future.”



Hosts International Atomic Energy Agency 	Organizers 국가핵융합연구소 대전광역시

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