The HQ of SPE recorded 70 years since the founding. SPE Japan Section reached the 55th anniversary commenorable time by this year, too. On February 15-16, 2011, we sponsored ASIATEC 2011 at Tokyo Big Sight as a hall. We built the organizing committee of this Conference in section and were able to put it into operation in a run-up of more than one year. There was the effect that published Call for paper in a monthly magazine of the SPE headquarters and the magazine of Plastics-Age and we got the participation from the countries of the world.

We report the progress of the international conference with the participation of 110 people including 40 people from the foreign countries. The participant from the inside and outside the country was included in the guest of "nanotech2011" simultaneously. (photo 1). As for the Plastics conference in the district of Asia, an isolated conference has been held in Japan, Taiwan, Korea, Hong Kong, India. (documents of the end introduced the example). It may be said that it is this characteristic that began by continuing it by ANTEC and a name of ". TEC" of the same end of a word that the headquarters puts into operation. First EUROTEC 2011 will be opened in Barcelona, Spain in Autumn, too. One regret is that we can not decided in the holding year and the site of next ASIATEC during a period.

### Table 1

<table>
<thead>
<tr>
<th>Country Area</th>
<th>Company</th>
<th>University</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Japan</td>
<td>61</td>
<td>9</td>
<td>70</td>
</tr>
<tr>
<td>South Kora</td>
<td>4</td>
<td>10</td>
<td>14</td>
</tr>
<tr>
<td>China</td>
<td>5</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>USA</td>
<td>3</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>Germany</td>
<td>4</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Thailand</td>
<td>2</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Canada</td>
<td></td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>France</td>
<td>1</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Middle East (Turky, Saudia Arabia)</td>
<td>each,1</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>ASia (Hongkong, Ta iwan, India)</td>
<td>each,1</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Total</td>
<td>86</td>
<td>24</td>
<td>110</td>
</tr>
</tbody>
</table>

### Constitution of the conference

The conference opened with an opening address by Japanese section president and President-elect of the headquarters at 9:30 a.m. of 15th. (photo 2). While they divided the whole into 6 sessions, the first session and the second session depend on an offer from the organizing committee. These divided it into "Plenary lecture" and "Plastics industry in Asian countries" each and put it in the morning of the first day and the second day. We arranged 4 sessions from the third to the sixth namely general remarks of "New development of polymer processing" "Properties & structure" "Advanced materials" "Plastics for automotive" and presentation including the thesis in the afternoon of both days. We held a banquet at Ariake Washington Hotel from 6:30 in the evening of the first day.

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**SPE ASIATEC2011 Report**

Shinichi Izawa

A participation registrant

The number of participation registrants is to show it in table 1 (including the person canceled). As for the characteristic of the SPE, approximately 80% of the participants from each country are businessmen. The thesis announcement by the Japanese doctor of the special lecture and by the postgrad of the district of Asia was outstanding through the university relations. The characteristic of this international conference understands when we watch this table.

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**Plastics Age** (Translation by MSAI)
A classification of the number of announcement

This international conference arranged presentation in a requested lecture from the organizing committee and an application article for Call for paper. The Presentation of the first and the second session was requested Presentation (Japan, ten cases of for each five foreign countries). After the third session, we have been composed of the requested Presentation (nine) from the organizing committee from posting theses (27). We classified requested paper in the third, the fifth, the sixth session in various places in Japan. The posting theses of 16 cases from Japan and 11 cases from the foreign countries, was classified by sessions from the third to the sixth. Those classifications are shown in table 2. When it was passable that presentation cancellation of the day got off with three cases just before that if we take allowance for having been posting theses from September, 2010.

Presentation Contents (each session)

Presenter and their contents of every session are introduced. One changed the title and some contents at the time of presentation. The statement here just gave the title of the entry for a program by an arrangement of the application for participation in conference registration order. Some Presentation was chosen by my dogmatism in each session and added an impression and did a report.

The first session (Plenary lecture)

Russell Broome "Society of plastics engineers and future of plastics"
Kazunori Kataoka "Smart polymers for nanomedicine"
Mamoru Sakagami "Prospect of plastics processing technologies in 2020, Innovations by GNP collaboration"
Toshio Nishi “Thermoplastic elastomers: basics and recent applications"
Masao Iwano "Plastic composites for automotive parts"

Mr. Broome (President-elect) of SPE HQ presented "Society of plastics engineers and future of plastics" (photo 3).

Though it was early, as for the Presentation of first thing in the morning of the second day Dr. Kataoka, beginning time was filled up with a large number of audience for 30 minutes than the day before. About the polymer nanocapsule, an application study of development to the therapeutic drug of the highest cancer, it was illustrated by a slide of visible form and received a big impression. (photo 4).

The introduction of the application of the composite to an automobile part of Mr. Iwano covered the very wide field. (photo 5). His presentation were tied to the discussion of the sixth subsequent session and highly concerned people were attracted.

The second session (Plastics industry in Asian countries)

Kiyotaka Tomari "Activity of Japan section"
Minqi Xin "Situation and market trend of engineering plastics"
Tetsu Yagi "Country report Indonesia"
Masahide Tashiro "Challenges & Opportunities of the Malaysian Plastics industry"
Myung-Ho Kim "Activity of Korea section"

There was an introduction about economy based on long experience of Indonesia, society, industry from Yagi. (photo 6). A viewpoint only in JICA which was not limited to plastics industry attracted attention. A debater on behalf of the Chinese engineering plastic industry included stylish presentation from Xin. It was reported the action of the Chinese company to the polymer production following the situation introduction of the company which occupied the Chinese plastics industry Top Ten. (photo 7)
The advance to petrochemistry was difficult, and only top 1 seemed to begin to enter it under the present conditions for a Chinese company.

The third session (New development of polymer processing )
[offer Presentation]
Michio Komatsu "Injection molding process of heat resistant hollow articles made of poly-lactic acid containing resin"
Satoshi Okamoto "The development of innovative LCPs for new areas of application"
Hiroshi Goto "Recent progress in nano-imprint process and its industrialization"

[posting theses (overseas )]
A.Kermer-Meyer "Laser-assisted processing of fiber-reinforced thermoplastic composites" (FRTC)
M.Edalatmanesh "Utilization of pulp and paper mill waste secondary sludge for Nylon bio-composite production"
Byeong J.Jeong "Effects of compounding conditions on mechanical properties of short fiber reinforced polycarbonate"
Han N.Choi "Mechanical and thermal properties of the recyclePET fibers compared with normal PET"
Peter Mayer "State of the art sorting technology for the PET recycling process with a special emphasis on bottle to bottle recycling"

[posting theses (Japanese )]
Hironobu Fujimoto "Pressure-sensitive-adhesive sheets for nano-imprinting process"
Takayuki Ishihara "Multiblock multilayer olefin containers with oxygen scavenger"
Koji Mizunuma "Pattern sheet extrusion"
Toshio Igarashi "How the rotational molding contributes to develop for local supply and consumption system"
J.Dlouha "PVA microcellular foams and its reinforcement by cellulose nanofibres"

Dr. Okamoto introduced application by the development of new liquid crystal polymer processing widely. It was displayed the real thing developed with announcement contents alone in an athletic supporter company in a meeting place and attracted attention of many people. (photo 8). Mr. Fujimoto introduced the new side of the processing technique by the nano imprint and the application mainly on a feeling of perceptiveness pressure film. This session had 13 biggest presentation and was busy with even the traffic of two meeting places. (photo 9).

The fourth session (Properties & structure)
[posting theses (foreign countries)]
C. Kaynak "Flame retardancy synergism by using aluminium trihydroxide (ATH) and nanoclay in high impact polystyrene" (HIPS)
Bong C.Kim "Investigation of scratch properties of poly(methylmethacrylate) with variable scratch tip diameters"
Ilhyun Kim "Variation of the fatigue crack propagation behavior of pipe grade polyethylene with misaligned circular notched specimen"

Hong Fan "Performances of phenolic composites reinforced with sisal fibers and sisal/glass hybrid fibers"
Katsuyuki Wakabayashi "Solid-state shear pulverization: unique processing technique for polymer nanocomposite manufacturing"
Rena Pomaville "Engineered plastics-improving profit margin by improving processing efficiency"

(Kazutoshi Yakemoto "Development of the melt transcription molding process to produce highly functional plastic")

Dr. Wakabayashi of the Assistant Professor showed a new characteristic, structure by solid-phase processing of the polymer nanocomposite. (photo 10). Pomaville introduced the examples which was connected by the effect for the profit improvement of the production process when a molding forming technology of the polymer was improved. The side of the corporate management appealed for the effect of the technological improvement by the side of the corporate management.

The fifth session (Advanced materials)
[offered Presentation]
Yoshihisa Kano "Adhesive products for Furukawa Electric Co. Ltd"
Sadayuki Kobayashi "Nano-alloy"
Terunori Fujita "Fl Catalysts: Unique olefin polymerization catalysis value-added polymer"
Makoto Kato "Polyimide-clay nanocomposite materials"

Marc Zwart "Greener colored plastics lead and halogen free"
Takeshi Suzuka "New thermoplastic polyurethane (TPU) from renewable sources"
Yatish B. Vasudeo "Nanominerals & Nano-oxides"
Plastics Age                                                                                                                                 SPE ASIATEC2011 report

April 2011                                                                                                                                      Plastics Age    (Translation by MSAI)

Hae Y.Choi "Preparation and characterization of composite carbon fibers having inorganic nanofibers for low thermal conductivity application"

Koji Kameo "Novel polypolypropylene/poly (lactic acid) polymer alloy via reactive processing"

Yong H.Kim "Chemically patterned surfaces through polymer transfer printing and their applications to colloidal"

Junichi Takahashi "A simulation for fracture prediction based on craze behavior of crystalline polymer in high strain rates"

When a development technique introduction of the polyolefin using FI catalyst of Dr.Fujita was very stylish announcement, we admired. (photo 11). Before only 25 minutes, it was felt that 16 pieces of PowerPoint all of wanting to say was covered all, and to show watched a copybook of the presentation. The questions and answers were carried out at the level appropriate to it, too and were very good. Dr.Vasudeo introduced nanomaterial technology in India mainly on a nano oxide technology.

The sixth session (Plastics for automotive )

[ requested Presentation]

Toshiaki Hotaka "Development of polycarbonate automotive glazing"

Takashi Maruyama "Automotive trends drive broader, more diverse plastics use"

[posting theses (overseas ))]

Ko Sungrok "Applications of PP/Nanoclay hybrid to automotive parts"

[posting theses (Japanese ))]

Hiroyuki Imaizumi "The developments of PC automotive glazing"

This session related to Plenary lecture of preceding Iwano and mobile application.

As for the part for automobiles, there were the many results by interior decoration, exteria decoration to around the points contributed to lightweighting. Besides, as for the greatest theme of the car lightweighting that it has been left for now what all publishers are common and emphasized, making Glass by Plastics. In other words, it was introduced how polycarbonate was replaced with the glass of the car with technical contents.

Banket

The banket was held in Alice room of Ariake Washington Hotel from evening half past 6 of (the first day) on 15th. This time in "an athletic supporter Japanese company all the publishers banket gave the communication called the invitation", and had attend towards most of. Opening a barrel was performed as an opening event and heaped up international atmosphere of a conference. (photo 12)
We worked as an open party by the toast of the Inoue program chairperson, and peaceful interchange was performed. In the middle stage of the meeting, there was the presentation of the award from the SPE headquarters by adventitious participation and presented the letter of thanks to the organization committee. (photo 13) It has been thought that it was able to be spent with participants happily.

Address of gratitude
At first the people of the athletic supporter Japanese company are thanked. The meeting of two days was able to be finished by the warm help from an athletic supporter safely in two meeting places of Tokyo Big Sight. The name of the athletic supporter Japanese company is nominated for table 3 and expresses the will of thanks. Gratitude is shown to a large number of lecturers, audience participated in from the foreign countries including the SPE headquarters some other time. Much application lecturers who had announce the new article to show a technical trend in various places who had the inside busy super accept invitation Presentation from the country are told about the deep thanks. A member of organizing committee made an effort for in preparation for a meeting is thanked deeply in total while business is had.

References

SPE Japan section:
URL: http://idisk.mac.com/msainst/Public/nano/ransplavel/
Nanopolve/indexe.html

Table 3    Athletic supporter Japan enterprise

SUMITOMO BAKELITE Company Limited
Mitsui Chemicals Inc.,
NPO Research Association of Nano Structure Polymer
Showa Denko Kabushiki Kaisha
Teijin Chemical Company Limited
Steer Japan Company Limited
Zeon Corporation
Polyplastics Company Limited
Hitachi Chemical Company Limited
ToyoSeiki Company Limited
Fujifilm company Limited
Toshiba Machine Company Limited
Teijin Limited
Bridgestone Company Limited
SABIC Japan Company Limited
Toray Industries Inc.,
Sumitomo Technical Information Service Inc.
Sumitomo Chemical Company Limited
Sekisui Chemical Company Limited