



SPE Japan Section News Letter

Publisher : SPEJapan Section Plastics Age INC. Yoko Building.6Fl. Uchikanda3-2-12,Chiyodaku, Tokyo

Major Event in 2015

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Date/	Event	Seminar
2015/07/27	Board of Directors & the general assembly	SPE-ANTEC/NPE2015 introduction
2015/10/23	Steering Committee	Current situation of CFRP airplane and car / GIFU innovation center tour meeting
2015/12/18	Steering Committee	Environment, energy and molding workpiece seminar
2016/02/17		9th NANO/SPE coalition seminar
2016/04/26	Steering Committee	Advances and fundamentals in automotive TPO
2016/06/10	Next year's event committee	The tide of the functional film

The main administration events of 2015 were as follows. It is the board of directors, a member general meeting on July 27. The Executive Committee held four times of October 23, December 18, February 17, and July 26. Furthermore, we held next year event Committee on June 10.

We were as follows by the officer personnel affairs. It is the retirement of Section President Baba, the retirement of secretary Kim, Katsura, the retirement of the Oshima director at the board of directors a general meeting of 2016.

The assumption of office of Section President Ito, Kawasaki, the Deputy Section President Ogiwara assumption of office, the assumption of Mizomoto of secretary. In addition, we carry out little update of articles of association.

We held the following as a main event successively. It is SPE-ANTEC/NPE2015 introduction Presentation by a plan of the Director Ito on July 27, 2015.

It is the Presentation titled the spot of the carbon fiber CFRP and gifu innovation center tour meeting by a plan of the Director Nagaoka on October 23, 2015.

Energy and cosmetic surgery workpiece environmental by a plan of the Director Kawasaki on December 18, 2015.

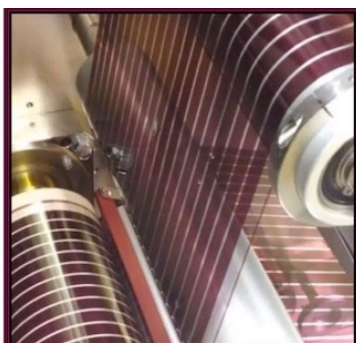
It is No.9 NANO/SPE combination conference by a joint plan of Director Katsura and the NPO Reserach Association of Nano Structuted Polymer on February 17, 2016.

The basics of automotive TPO and a technical trend by a plan of the Director Kobayashi on April 26, 2016.

A tide and the food medicine packing of the functional film and development to industrial application by a plan of the director Katsura on June 10, 2016. The total participant was 176 people. The settlement of accounts of 2015 was the black of a little over 210,000 yen.

The section number of members dated June 30, 2016 was 34 regular members, corporate member three.

Large reform is moving the headquarters connection now.



2016 Board of Directors			
role	name	company	ref.
President	Hiroshi Itoh	Yamagata university	NA
Vice President	Shinichi Kawasaki	Osaka Gas Chemicals Co., Ltd.	NA
Vice President	Motohiro Asayama	Plastics Age Co., Ltd.	Con
Vice President	Kiyotaka Tomari	Osaka Municipal Technical Research Institute	Con
Vice President	Manabu Ogiwara	Nippon Zeon	NA
Counselor	Masaya Kotaki	Kaneka American Corp.	Con.
Accounts	Akira Okawa	SUMITOMO BAKELITE Co.,LTD	Con.
Membership	Manabu Ogiwara	Nippon Zeon	Con.
Secretary	Hitoshi Mizomoto	Asahi Kasei Corporation	NA
WebNL	Masahide Tashiro,	MSA Institute	Con.
Advertise	Motohiro Asayama	Plastics Age Co., Ltd.	Con.
Director	Takeshi Nagaoka	Nagaoka Engineer Office	Con.
Director	Tadahiko Katsura	Packaging technology Lab.	Con.
Director	Fumiaki Baba	Mitsubishi Electric Corporation	Con.
Director	SHINICHI KAWASAKI	OSAKA GAS CO., LTD.	Con.
Director	Sugiya Umeda	Technovel Corporation	Con.
Director	Yonghoon Kim	Furukawa Automotive Systems Inc	Con.
Director	Shotaro Nishitsuji	Yamagata University	Con.
Director	Yutaka Kobayashi	Prime Polymer Co., Ltd.	Con.
Auditor	Kazuhiro Ogino	Olin Engineer Office	Con.
Auditor	Shin-Ichi Izawa	Kogakuin University	Con.
Adviser	Susumu Nagai	NR Techsearch	Con.

Officers i 2016 (honorific title abbreviation)



Mizomoto	Umeda	Nishitsuji	Kobayashi	Kimu	Nagaoka	Oikawa	Tashiro
	Asayama	Kawasaki	Itoh	Baba	Ogiwara	Katsura	

As for the officer change of 2016, Section President Baba retirement, Director Katsura, Director Oshima retirement, Secretary Kim were retired. On the other hand, Assumption of Section President Ito, of Deputy Section President, Kawasaki, Deputy Section President, Ogiwara, of Secretary Mizomoto director, of Counselor Kotaki.

Director Kotaki and Director Tomari are absent with the photograph mentioned above in a day.

My expectation for Plastics Technology in future.

Processing of the plastics is, how to “dissolve”, to “flow”, to “form”, to “harden”. These are non-stationary, non-isothermal, carried out in a high pressure process. In the past, in order to meet the advanced application request also in plastics products, it includes the following as an approach from the material surface.

- 1, molecular primary structure control by synthesis technology.
- 2, Nano-scale structure control of material.
- 3, polymer nanoalloy (nano composite) .

On the other hand, it is aggregated into low cost, the existing materials and recycled materials, using existing manufacturing equipment and conventional molding process to control the macro-meso-micro morphology and structure of the material, the high moldings it is required to functionalization. Because of its realization, relaxation process of the molecular chain in the molten state, to control the flow state and solidification process,

entanglement and network structure state of the molecular chain, it is essential to control of amorphous and crystal structure of the micrometer order. Plastic is developed only already 100 years, a number of materials so far have been developed.

Polymer blend alloying, the history of the composite material is also old, the future, feel difficult or come out innovative new material. The reason for this material to be used in actual consumer takes a long time for development, cost reduction, it is necessary to consider to ambient recyclability. Further, in the "manufacturing" of molding the future, with consideration for the environment and energy loss, it is necessary to realize the processing of a wide in a shorter time. In addition, the size of the "thing" is nano, small that micro, auto parts from thin, even larger structure, would also be essential to cover up to mega-size. To achieve these, new materials creation, development of machines, composite molding technology, the development of CAE, it is necessary such as the development of measurement technologies.

SPE Japan section, there has been professional technical personnel of the material of the polymeric materials and synthetic resin of a wide range of industries and processing technology. Lectures by the three current or 5 professional and that you are familiar with the current principle In the past, recital, through the tours, have provided the topic of the latest cutting-edge technology and basic research in this field. This section, based on a strong membership network, has been working steadily towards the break-through realization of mutual study and membership.

You are welcome to participate in a number of technical personnel of the SPE Japan section engaged in this field.



Dr.Hiroshi Itoh
President of SPE
Japan section



Major events in 2015

We got 176 participants in six times of seminar which got together towards 19 lecturers as a main event of 2015. In July, 2015 "an introduction of ANTEC2015," In October, 2015 in "present conditions togifu innovation center tour meeting December, 2015 of the carbon fiber CFRP" "environment, energy and molding workpiece" In February, 2016 "No.9 NANO/SPE combination seminar" In April, 2016 "the basics of automotive time, place, occasion and a technical trend" In June, 2016 "development to the tide of the functional film and food, pharmaceutical products packing, industrial application" We carried out six times performance party mentioned above.

Date	Event	Title	Presenter	Company
2015/7/27 22	SPE-ANTEC/NPE2015 introduction	ANTEC2015 & NPE topics introduction	Hiroshi Ito	Yamagata University
		The latest trend (provisionally) of foaming, the industrial	Masataka Sugimoto	Yamagata University
		An NPE topics & latest extrusion technology	Umeda Sugiyu	Techno bell Co.,Ltd.
2015/10/23 29	Current situation of the carbon fiber CFRP airplane and car / GIFU innovation center tour meeting	CFRP, a molding outline	Asami Nakai	Gifu University
		The development of CFRP and a car	Yuji Urayama	Toyota Motor Corporation
		The development of CFRP and a plane	Nitama Shigeki	Kawasaki Heavy Industries Co.,LT
2015/12/18 25	Environment, energy and molding workpiece seminar	The development of the conduit line rebirth method"SPR	Shigeki Fujii	Sekisui Chemical Co., Ltd.
		Will the hydrogen energy build a low-carbon society and will	Tatsuo Kume	Osaka Gas Co., Ltd.
		The change of the solar battery market and a problem of	Yoshihisa Tawada	Osaka University
2016/2/17 34	9th NANO/SPE coalition seminar	NEDO's Activities toward realizing Hydrogen Society	Ohira Eiji	NEDO
		Digital Signage	Yamamoto ko	East Japan Marketing & Commun
		Materials Development Toward High-Efficiency Printable Polymer Solar Cells	Itaru Osaka	RIKEN
2016/4/26 37	Advances and fundamentals in automotive TPO	Technical trend of TPO and its future	Yutaka Kobayashi	Prime Polymer Co., Ltd.
		Automotive manufacture's vision to TPO future	Hotoshi Ogane	Honda R&D Co., Ltd.
		Technology of polypropylene production	Akihiro Otsubo	SunAllomer Ltd.
		PP Modification by Polyolefin Elastomers	Michio Ono	Dow Chemical Japan Ltd.
2016/6/10 28	The tide of the functional film	Trends in Functional Film	Tadahiko Katsura	Packaging Science Institute
		Evolution of GL BARRIER Transparent High Barrier Film	Toshimi Yamamoto	Toppan Printing Co., Ltd.
		TOPAS COC Development in the Medical Packaging Field	Hidetoshi Okawa	Polyplastics Co., Ltd.





Financial report in 2015

Financial statement (2015/7/01-2016/06/31)			
Input		Output	
subject	¥	subject	¥
Participation fee		Member fee for HQ	0
Member fee for Section 1	539870	Transfer fee	0
Member fee for Section 2	40000		
Rebate	43371		
Meeting Fee	912500	Meeting expense	741690
Magazine & Materials	0	Magazine & Materials	0
Interesting	517	Communication	0
Miscellaneous income	150000	Advertisement	720383
		materials	0
		office	0
		miscellaneous	11938
Total	1686258	Total	1474011
		Revenue at June 31,2011	212247
Previous Term	1427159	The next Term	1639406

The income reduced the increase, the rebate by general participant increase from last year. We abolished the postal account and assumed it only a bank account.

Editing postscript

When we watch a recent world trend,
 1) Refugee issue around Middle East, 2) The issue of BREIXT where U.K. leaves EU, 3) The issue of occupation by China of South China Sea, 4) The issue of such as VW false application to disposal gas regulation by the car manufacturer, Will the turning point of the equal times approach? Will Polymer/Plastics make the positioning as base materials to develop physical property from a simple material strong? We came to must keep an eye on it. *mt*

In the Section President retirement



Fumiaki Baba
 Past Section President
 (2014-2015)

In the branch manager retirement We received the back of Branch Manager Izawa and acted as the manager of SPE Japan branch of 2014-2015 year. SPE Japan Section was Plastics Engineer, and it was two years when it keenly realized that it was a meeting of Professional Engineer. The section activity continues seminar of the most advanced technology from materials, molding to product application and performed it, but, by the superior plan of the charge director,

a participant gets rising result year by year. In addition, we planned tour meeting about the advanced Composite material, seminar for the first time in Nagoya district and were able to get a large number of participation. Wrestled with member all of you for the member reinforcement,; but of the slight increase it followed. There is the comprehensive knowledge in the best level at altitude based on the practice of technical, running it of Professional Engineer about the plastic at home and abroad. We want to realize the member reinforcement with Branch Manager Shin Ito in future by providing the place of "Give & Take" by the information exchange of member aspect each other literally. In the recent development spot, speedup of the development is planned by 3D-CAD, high-performance forming machine, the spread of latest assay evaluation apparatuses. On the other hand, we feel 3 existing principles, estrangement from the principle of 5 genes to be strong. Through activity of the SPE Japan Section, we want to realize "a practical manufacturing technique" coherent to the spot sequentially.





Membership list in 2015

2015Membership list		
No	Name	Company (2016/06/30)
1	Hiroshi Itoh	Yamagata University
2	Shinichi Izawa	
3	Junya Ishibashi	
4	Susumu Nagai	Techno Search
5	Manabu Ogiwara	Nippon Zeon Co.,
6	Kazuhiko Ogino	Ogino Engineer Office
7	Tadahiko Katsura	Hoso Kagaku Kenkyusho
8	Masao Iwano	PTBDL
9	YoonHoon Kim	Furukawa Electric Co.,Ltd.
10	Toshihiko Harada	Starlite Co.,
11	Naoichi Takashima	Takashima Engineer office
12	Masahiro Shindou	Sekisui Plastics Co.,Ltd.
13	Motohiro Asayama	Plastics Age Co.,
14	Takeshi Nagaoka	Nagoya University
15	Masahide Tashiro	M S A I
16	Fumiaki Baba	Mitsubishi Electric Co.,
17	Kiyotaka Tomari	Osaka Municipal Tech. Res. Inst.
18	Mikio Fukumura	SKI
19	Akira Oikawa	Sumitomo Bakelite Co.,
20	Kenji Ehara	Asahi Kasei chemicals Ltd
21	Shinichi Kawasaki	Ohsaka Gas Chemicals Ltd
22	Naomi Katsura	Katsura Technoconsul
23	Masahiro Ohshima	Kyoto University
24	Masaya Kotaki	Kaneka America Corp.
25	Naoshi Nakajima	Toyobo Co.,Ltd.
26	Sugiyu Umeda	Technovel Corporation
27	Hiroyasu Endo	Mitsubishi Electric Co.,
28	Yasuhito Morita	Uchimura Co.,Ltd.
29	Takeo Yasuda	Yasuda Polymer Research Lab.
30	Shiro Tanaka	Nagatsu Precision Mold Co.,Ltd.
31	Yutaka Kobayashi	Primpolymer Co.,Ltd.
32	Shotarou Nishitsuji	Yamagata University
33	Mio Kubota	Asahi Kasei chemicals Ltd
34	Kota Morimoto	Toyo Seikan Group Holdings, Ltd.
35	Toshiyuki Hioki	Daiei Corporation
36	Hitoshi Mizomoto	Asahi Kasei Corporation
37	Tsutomu Akiyama	Asahi Kasei Corporation

The number of members of the SPE Japan Section of 2015 was 37 people.

It was the increase from 33 to four of 2014. It was inner three companies, and the corporate member did not change last year.

Is 130 cardholders to the SPE headquarters; a member (was 2016/6/30.) regular as for inner 36 people as for emember (a member registering itself in Internet which began in 2014) and 94 people We glanced through the new activity that came up by various reform that were pushed below forward in the headquarters.

- THE CHAIN,
<http://thechain.4spe.org/home>
- Consultant Circle.
<http://www.4spe.org/contentnrelated.aspx?ItemNumber=22110>
- Online Technical Library,
<http://www.4spe.org/Resources/technicalresources.aspx?navItemNumber=657>
- PLASTICS INSIGHT,
<http://www.4spe.myindustrytracker.com/en/top>
- PLASTICS ENGINEERING magazine
<http://www.plasticsengineering.org/index.aspx?&RDtoken=61243&userID=>
- SPE Technical Journals
<http://www.4spe.org/Resources/Content.aspx?ItemNumber=3913>
- SPE's conferences
<http://www.4spe.org/Events/index.aspx?navItemNumber=631>
- education and training programs
<http://www.4spe.org/Resources/news.aspx?ItemNumber=22063>

SPE Japan Section Application

Member Distinction Put ○ for your position	individual membership		Describe to individual column		
	corporate membership		Rep for Indiv, Column, Representative of Corporation		
Individual	Name		Corporate	Company name	
	〒 Address			Division	
	Tel			Name	
	E-Mail			〒 Address	
				Tel	

Please fill the above. In addition, the person in charge of a corporate member, so you also need to join the U.S. headquarters procedure, please send at the same time to fill out the attached entry format.

SPE Japan Section Membership Manabu Ogiwara

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Please contact the above if you want to participate into SPE Japan Section.



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Chief Executive Officer
WILLEM DE VOS
SPE
Tel: +1 203.775.0471
Email: wdevos@4spe.org

In the SPE headquarters, Mr. Willem De Vos of CEO is advanced after the inaugurating, substantial reformation. The article which expresses concerning that recent reformation was published below.

The question is not IF the classical business model, which most companies in the plastics value chain use, will be disrupted. The question is when? And how? At SPE we are focused on innovation, and, as well-trained engineers, we think about product, material, and equipment innovations—but what about business model innovations?

News sites and social media are disrupting newspapers and the printed press, Uber is disrupting taxi services, Airbnb is disrupting the hotel business, internet retailers are disrupting physical stores, and so on. We are clearly evolving into a “sharing economy.” Young people in the city are starting to use Zipcar; they drive to work, park the car, and it becomes available for anyone to use. This kind of business model innovation has and continues to impact SPE. Our business model of “selling” someone access to a knowledge database and a person’s contact information via a membership directory is being disrupted by the information on the World Wide Web and its many social networks—creating a perception that one does not need a physical network.

And how does this apply to SPE’s scientific journal business? The old model used to work as follows: the author “provides” us with a (peer-reviewed) paper which gets published in our journals, which are purchased by customers. Well, the new model is changing to this: the author and his organization pay SPE to publish his/her (peer-reviewed) paper in an open knowledge platform, accessible to everybody, free of charge! (And note that the papers will be peer-reviewed and edited to same high standards as before.)

This fits a world where people want to share immaterial and non-physical assets. Think about Tesla opening its patents for use by the market (read: its competitors) free of royalties of any kind. So, what new business model will fundamentally change our plastics industry in the future? Will resins be available on a virtual global commodity materials marketplace, perhaps ending shortages and force majeure situations?

Will compounders have their formulations in the cloud for download? Will the customer be able to have the formulation compounded at any nearby plant? Or will we simply order a pre-customized set of materials and pay for a download of a new smartphone to be produced in our home on our very own 3-D printer? Three-dimensional printing comes closest to having real disruptive potential to today’s polymer materials, processing, and equipment markets.

But let’s be clear: other business models, whose existence we ignore today, will one day drastically change how our plastics supply chain functions. With SPE being at the forefront of novelties, chances are high that as an SPE member you will become aware of these changes at their earliest stages.

Wim De Vos
CEO, SPE

