

JSSE holds Spring Lecture Meeting and General Meeting

June. 15, 2017

The Japan Society of Spring Engineers (JSSE) held its semiannual Lecture Meeting, including a poster session, and Annual General Meeting at Meiji University in Tokyo on June 15.

Lecture Meeting

Nine general lectures and one special topic lecture were presented to 158 attendees in a hall on the Tokyo Surugadai Campus. The opening speech was presented by Dr. Masao Hayakawa, a vice-chairperson of JSSE in charge of research activities and a head researcher of National Institute of Materials Science.



Dr. Hayakawa

Titles of General Lectures and Presenters

1. Estimated Hydrogen uptake in spring steel from usage environment and interpretation of diffusible hydrogen amount measured by Thermal Desorption Gas Chromatograph spectroscopy, by Yasuhide Ishiguro of JFE Steel Corporation.
2. State of hydrogen in V-alloyed high strength steel, by Yutaka Tsuchida of Daido University.
3. Development of COWALOY® for high temperature springs, by Yoshinori Sumi of Daido Steel Co., Ltd.
4. Effects of Wire Anisotropy on Stress Distribution in Tension Coil Springs and their Deformation Behavior, by Yuji Nakasone of Tokyo University of Science.
5. Application of Flexible spring characteristics to sport engineering (Pole vaulting) by Atsumi Ohtsuki of Meijo University.
6. Analytical solution for Noncontact type spiral spring, by Takuro Matsumoto of Hayamizu Hatsujo Co., Ltd.

7. Theoretical method of determining Location parameter in Weibull's distribution, by Masakazu Tajima of Hayamizu Hatsujo Co., Ltd.
8. Measuring method of residual stress in actual production line - shot peening process -, by Kan Aoki of Sintokogio, Ltd.,
9. In-situ observation of pitting corrosion behavior on tempered martensitic steel by microelectrochemical system by Makoto Kawamori of Kobe Steel, Ltd.



Special Topic Lecture

Title: Spring used for seismic isolation device and vibration damping device. - Application to TMD as wind damper installed in the steel tower of TOKYO SKYTREE-

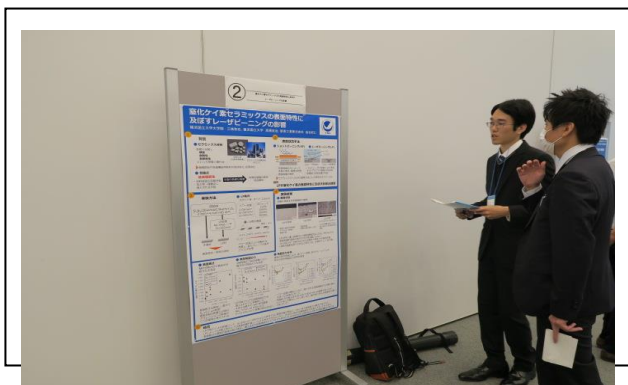
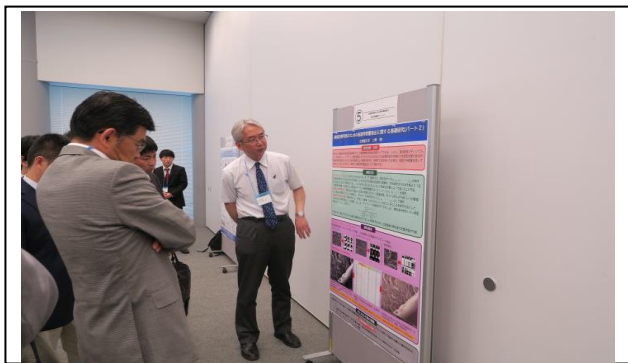
Lecturer: Mr. Atsushi Kubo of Mitsubishi Heavy Industries Mechatronics Systems, Ltd.



Mr. Kubo

Poster Session

Six technical posters were displayed in another hall on the same campus. A brief explanation was given by a representative for each of the posters on the speaker's platform for the lecture meeting, followed by question and answer session at the posters. The top three posters were selected based on the participants' voting.



Q & A Session at the Posters

The First Place Poster:

Development of shape memory alloy spring with wires of noncircular cross section, by Satoru Manzaki of Meiji University.

Two Second Place Posters:

FEM Analyses of Stress Intensity Factors for Surface Cracks in Compression and Tension Coil Springs, by Kazunori Muranushi of Tokyo University of Science.

Influence of laser peening on surface properties of silicon nitride ceramics, by Kazuya Saigusa of Yokohama National University.

Presentation Ceremony of Certificates of Spring Technological Heritage

Five certificates of Spring Technological Heritage were presented to four spring manufacturers to express JSSE's appreciation for their preservation of springs and machines of historical value. The awarded springs and machines are as follows:

- 1) Spring seat grinding machine, SG-7 owned by Chita Kogyo Co., Ltd.
- 2) Spring seat grinding machine, VP4/40K owned by Asahibanekogyo MFG. Co., Ltd.
- 3) Hollow stabilizer made of electro resistance welded tube, manufactured by NHK Spring Co., Ltd. and Yokohama Kiko Co., Ltd. (current Nipatsu Kiko Co., Ltd.)
- 4) Disk spring for aseismatic fixing device of Cable-stayed bridge owned by Honshu-Shikoku Bridge Expressway Co., Ltd.
- 5) Amsler type compression testing apparatus owned by Tokaibane MFG. Co., Ltd.



Recipients of the Certificates



Closing Speech by Dr. Nakasone, JSSE Chairperson

Annual General Meeting

The annual general meeting was held after the closing speech of the lecture meeting presented by Dr. Yuji Nakasone, JSSE chairperson and a professor of Tokyo University of Science, in a conference room on the same campus. The meeting was led by Mr. Hideo Yamamoto, an advisor to JSSE and an advisor to Horikiri Inc, on behalf of Mr. Yoshiharu Sugawara, a director of JSSE and of Horikiri Inc. During the meeting, six proposals, 2016 Annual Business Report, 2016 Settlement of Balance Report, 2017 Annual Business Plan, 2017 Budget, Recommendations of Honorary Members and Re-election of Officers were approved.



General Meeting

Reception

A reception was held after the Annual General Meeting in a hall in the same campus. Dr. Motoaki Osawa, a vice-chairperson of JSSE in charge of publication and a professor of Tokyo Denki University, made the opening speech, followed by the guest speech by Mr. Kazumi Tamamura, the chairperson of the Japan Spring Manufacturers Association (JSMA) and the Chairman & Chief Executive Officer of NHK Spring Co., Ltd.



Dr. Osawa



Mr. Tamamura



Mr. Kazunori Kai, an honorary member of JSSE, made a toast to the development of the spring industry and the participants' health.



Mr. Kai

As time passed with active information exchange and chatting, the reception was over with closing talk by Mr. Noriyasu Kaga, a director of JSSE and a manager, Designing & Engineering Department of Mitsubishi Steel MFG. Co., Ltd.



Mr. Kaga