

## JSSE holds Spring Lecture Meeting and General Meeting

June. 5, 2018

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 5.

### Lecture Meeting

Eight general lectures and one special topic lecture were presented to 146 attendees in a hall on the Tokyo Surugadai Campus. The opening speech was presented by Mr. Haruhiko Shiba, a Vice-Chairperson of JSSE in charge of research activities and a Managing Officer Member of the Board of Chuo Spring Co., Ltd..



Mr. Shiba

### Titles of General Lectures and Presenters

1. Stress Intensity Factors for Semi-elliptic Surface Cracks in Tension Coil Springs with Orthotropic Anisotropy and Those with Cylindrical Anisotropy, by Dr. Yuji Nakasone of Tokyo University of Science.
2. Report on High-Temperature Spring Set of Compact Compression Springs, by Dr. Kazuhiro Kawasaki of Neturen Co.,Ltd., Mr. Takayuki Okamoto of Chuo Spring Co., Ltd. and Mr. Fuminori Okada of Sumitomo Electric Industries, Ltd., Research Committee on High-Temperature Spring Set of Compression Coil Springs of JSSE.
3. Elastoplastic Deformation Behavior in the Surface of Austenitic Stainless Steel by Peening, by Mr. Ryo Ishibashi of Hitachi, Ltd.
4. Nonlinear Analysis on Advanced Restoring Spring Characteristics (Large Deformation of Fishing Rods), by Dr. Atsumi Ohtsuki of Meijo University.
5. The thinner type suspension seat for commercial vehicles using high performance

urethane foam, by Mr. Shinji Uehara of NHK Spring Co., Ltd.

6. The effect of carbide precipitation on mechanical properties of tempered martensitic Si-added high carbon steels, by Mr. Takahisa Suzuki of Nippon Steel & Sumitomo Metal Corporation.
7. Micro region Mechanical characterization approach to tissue changes in the time-dependent, by Dr. Nobuo Nagashima of National Institute for Materials Science.
8. Observation of rolling contact fatigue cracks by using synchrotron radiation micro-computed tomography imaging, by Mr. Yutaka Neishi of Nippon Steel & Sumitomo Metal Corporation.



### Special Topic Lecture

Title: Development of the Endoscope, - Innovation on the cancer treatment for Digestive Organ -  
Lecturer: Mr. Yoshitake Saito of Olympus Corporation.



Mr. Saito

## Poster Session

Five technical posters were displayed in the same hall. 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 two posters were selected based on the participants' voting.



Q & A Session at the Posters

### The First Place Poster:

Influence of surface defects on fatigue strength of nitrided steel, by Mr. Jun Konya of Yokohama National University, et al.

### Second Place Posters:

Application of the  $\text{COS } \alpha$ , cosine alpha, method to spring steel, by Mr. Tomohiro Yamazaki of Mitsubishi Steel MFG. Co., Ltd., et al.

## Presentation Ceremony of Certificates of Spring Technological Heritage

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

- 1) Oriental Lock (30 pieces), owned by Gallery Key and Lock.
- 2) Wire Forming Machine, TSF-8000 owned by Taihei Seisakusho.

3) Electric Powered C-Type Press, TP-25 manufactured by Amada Co., Ltd. owned by Taiga Manufacturing Co., Ltd.

4) Traditional Gun, owned by Sakai Gun Study Group.



Oriental Lock



TSF-8000

TP-25



Traditional Gun



Recipients of the Certificates



Dr. Nakasone

## 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. Yoshiharu Sugawara, a Director of JSSE and a Technical Director and Sales Procurement Director of Horikiri Inc. During the meeting, six proposals, 2017 Annual Business Report, 2017 Settlement of Balance Report, 2018 Annual Business Plan, 2018 Budget, Recommendations of Honorary Members and Re-election of Officers were approved.



General Meeting



Mr. Tamamura

Dr. Katsuji Tosha, an Honorary Member of JSSE, made a toast to the development of the spring industry and the participants' health.



Dr. Tosha

## 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, a Chairperson of the Japan Spring Manufacturers Association (JSMA) and a Chairman & Chief Executive Officer of NHK Spring Co., Ltd.



Dr. Osawa

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