



Annual Activity Plan for 2014~2017 (tentative)

IFTOMM Technical Committee for Tribology

Webpage address:

http://www.iftomm.org/index.php?option=com_iftommembers&view=memberslisting&list=2&tcpc=tc&tit=Technical%20Committees&Itemid=120#Technical_Committee_for_Tribology

Name of the Chair: Dae-Eun Kim (Yonsei University, Seoul, Korea)

Activity plan for 2014~2017 (tentative)

1. Statements for the activity of the TC for Tribology

The TC for Tribology seeks to foster research on tribology, organize conferences and workshops in this field, and establish national as well as international collaborations. Furthermore, the TC seeks to disseminate the field of tribology to a wider community around the globe and promote the importance of tribology in enhancing the competitiveness in various technologies.

Following are the primary activities of the TC for Tribology:

1. Organize a major conference every two years, support conferences and workshops related to tribology
2. Establish national and international collaborations by visits and application to international collaboration programs
3. Organize special lectures and seminars.

2. Discussion of planned activities for 2014~2017

1) Conference: organization; committee member; workshop; etc.

<Prof. Dae-Eun Kim>

- International Advisory Board Member: ICAT 2014, Feb. 21-24, 2014, Calicut, India
- Scientific Committee Member: 7th China International Symposium of Tribology (CIST, 2014), April 27-39, 2014 in Xuzhou, China.
- Program Committee Member: International Conference on Quality, Reliability, Risk, Maintenance and Safety Engineering (QR2MSE 2014), July 22-25, 2014, Dalian, China.
- International Advisory Committee Member: IFSM2014, Oct. 12-15, 2014, Tainan, Taiwan
- International Advisory Board Member: TriboBR-2104, Iguacu, Brazil, Nov. 3-5, 2014

<Prof. Jianbin Luo>

- Chair of the Academic Committee of the 7th China International Symposium of Tribology (CIST, 2014), April 27-39, 2014 in Xuzhou, China.

<Prof. Nikolai Myshkin>

- Biannual conferences "Polycomtrib 2015" and "Polycomtrib 2017" (conditional) – chairman of organizing committee. Place – Gomel, Belarus, hosting organization – Metal-Polymer Research Institute of Belarus National Academy of Sciences.

<Prof. Zhongmin Jin>

- Co-organizer: Symposium on Cartilage Tribology, World Congress of Biomechanics, July 6-11, 2014

<Prof. Jose Daniel de Mello>

- Chair of the organizing committee of the Second International Brazilian Conference on Tribology - TriboBr-2014, 3-5 November, Foz do Iguacu, Brazil



- Member of the steering committee of the Wear of Materials 2015, 20th International Conference on Wear of Materials, 12-16 April 2015, Toronto, Canada
- Vice president of the International Tribology Council
- Director of The Tribology Technical Division of The Brazilian Society for Metals, Materials and Mining, Brazil
- Member of the International Advisory board of Symposium CC, Materials Solutions for Highly Demanding Tribological Applications, 13th International Ceramics Congress of CIMTEC 2014, 8 to 19 June, 2014, Montecatini Terme, Tuscany, Italy,
- Member of the Scientific Committee of 1st Workshop on surface treatments of corrosion resistant alloys, 21-25 July, 2014, Sao Paulo, Brazil.

<Prof. Zygmunt Rymuza>

- Chairman of 7th and 8th International Micro-Tribology Colloquia, 2014 (September 7-11).
- Chairman of 8th International Micro-Tribology Colloquia 2016.

<Prof. Linmao Qian>

- The 12 Chinese Tribology Conference, Oct. 2015, Southwest Jiaotong University, Chengdu, China
- 2014 Chinese Young Tribology Conference, May 15-18 2014, Yichang, China.

2) Presentation: invited talk; seminar; etc.

<Prof. Dae-Eun Kim>

- Keynote Address: International Conference on Advanced Tribology, Calicut, India, Feb. 21-24, 2014
- Seminar: PSG College of Arts & Science, Coimbatore, India, Feb. 25, 2014
- Invited Talk: 7th China International Symposium of Tribology, Xuzhou, China, April 27-30, 2014
- Keynote Talk: International Symposium on Green Manufacturing and Applications, Busan, Korea, June 24-28, 2014
- Invited Talk: CIMTEC, Montecatini Terme, Italy, June 8-13, 2014
- Invited Talk: IFSM2014, Tainan, Taiwan, Oct. 12-15, 2014
- Invited Talk: TriboBR-2104, Iguacu, Brazil, Nov. 3-5, 2014

<Prof. Jianbin Luo>

- Plenary Talk: The 19th International Colloquium Tribology Industrial and Automotive Lubrication in Germany on January 21-23, 2014.
- Will attend the Fifth Advanced Forum on Tribology to be held at Shizuoka, Japan on April 13-14, 2014.
- Invited Talk: The 2014 Tribology Gordon Research Conference to be held in Bentley University, USA, July 20-25, 2014.
- Plenary Talk: The International Brazilian Conference on Tribology (TriboBR 2014) to be held in the first week of November, 2014, which is supported by IFTOMM.

<Prof. Nikolai Myshkin>

- Plenary talk at 19th International colloquium on Tribology at Technical Academy Esslingen, Germany, January 2014.
- Presentation at 20th International Colloquium, January, 2016 (conditional)
- Presentation at VI World Tribology Congress in Beijing, September, 2017 (conditional).

<Prof. Zhongmin Jin>

- Keynote Talk: Development of Pre-Clinical Testing Tools for Artificial Joints, Symposia B-3, Materials in Biomechanics and Biotribology at IUMRS-ICA 2014, Fukuoka, Kyushu, Japan, 24-30 August 2014

<Prof. Jose Daniel de Mello>

- Invited Lecture- Symposium CC, Materials Solutions for Highly Demanding Tribological Applications, 13th International Ceramics Congress of CIMTEC 2014, 8 to 19 June, 2014, Montecatini Terme, Tuscany, Italy
- Invited speaker in a semi plenary session at IBEROMAT XIII – MATERIA Symposium 21-24 October 2014 Santa Fe, Argentina.



3) Publication: editorial positions; guest editor; book publication; etc.

<Prof. Dae-Eun Kim>

- Editor-in-Chief: International Journal of Precision Engineering and Manufacturing
- Associate Editor: ASME Journal of Tribology
- Editorial Board Member:
 - a. Tribology Letters
 - b. Friction
 - c. Advances in Tribology

<Prof. Jianbin Luo>

- Editor-in-Chief: Friction

<Prof. Nikolai Myshkin>

- Deputy Chairman-in-Chief of the International Journal of Friction and Wear (Russian and English versions)
- Editorial Board Member:
 - a. Tribology Letters
 - b. Industrial Lubrication and Tribology
 - c. Tribology in Industry

<Prof. Zhongmin Jin>

- Associated Editor, Journal of Tribology
- Associated Editor, Friction
- Section Editor, Cogen Engineering - Biomedical Engineering
- Editorial Board Member:
 - a. Journal of Engineering Tribology
 - b. Medical Engineering and Physics
 - c. Journal of Bionic Engineering.

<Prof. Jose Daniel de Mello>

- Editorial Board Member:
 - a. International Journal of Surface Science and Engineering
 - b. International Journal of Materials Engineering
 - c. Tecnologia em Metalurgia e Materiais
 - d. Archives of Foundry Engineering
 - e. Friction.

<Prof. Zygmunt Rymuza>

- Guest Editor for Special Issue of “Tribology-Materials, Surfaces and Interfaces” (selected papers from 7th (2014) and 8th (2016) International Micro-Tribology Colloquia)
- Member of Editorial Board for “Friction”

<Prof. Linmao Qian>

- Linmao Qian, Yu Tian, Shizhu Wen. “Nanotribology”, Beijing: Science Press, June 2013. 479p.
- Zhongrong Zhou, Haiyang Yu, Jing Zheng, Linmao Qian, Yu Yan. Dental Biotribology, Springer New York, 2013, 177p. ISBN: 978-1-4614-4549-4 (Print) 978-1-4614-4550-0 (Online), DOI 10.1007/978-1-4614-4550-0.

4) Education: special courses; training; student exchange/visit; etc.

<Prof. Nikolai Myshkin>

- Preparation of section in Russian tribology encyclopedia scheduled in 2014.



<Prof. Zygmunt Rymuza>

- Local Coordinator for exchange of tribologists (visiting professors and students) within the international Ceepus program of the collaboration between the Eastern European countries including Austria is expected in 2014 and in coming years.

5) Research: major research project; collaboration with other groups; visits to other institution; etc.

<Prof. Dae-Eun Kim>

- Director of Center for Nano-Wear which is a creative research initiative project sponsored by the National Research Foundation of Korea
- Visit to PSG College of Technology, Feb. 25, 2014, Coimbatore, India
- Collaboration with Prof. S. H. Kim's group at Penn State University on PEO/CNT composite coatings
- Collaboration with Dr. F. Xavier at Nagel, Germany on cylinder liner tribology
- Collaboration with Dr. V. Pukha at National Technical University, Ukraine on multi-layer tribological coatings

<Prof. Nikolai Myshkin>

- Research project in Belarus National Academy of Sciences fundamental programme in 2014-2015. Topic is the tribotesting of polymer based materials. Design of equipment and test procedures.

6) Others: honors; awards; etc.

<Prof. Dae-Eun Kim>

- Outstanding Research Award, Yonsei University, Feb. 19, 2014

TC Micromachines

bdjensen@byu.edu

I want to apologize for my tardiness. I intended to spend more time to more fully develop the plan outlined below, but since I haven't had that time, I'm replying with the plan I have in place right now.

For conferences, the Micromachines committee will continue to organize the biannual Micro Actuator and Micro Mechanism Conference. The next such conference is scheduled for 2-4 Oct. 2014 in Timisoara, Romania, and the following conference will be held in 2016 (venue to be determined).

I also intend to begin developing workshops on micromachine topics to take place as part of the annual ASME Design Engineering Technical Conferences. This venue is appropriate because of the large number of conference attendees with interest in micromachines. The first such workshop will occur in Aug. 2015.

The aim of these activities is to promote the sharing of information on the design, fabrication, and



IFTOMM

testing of micromachines. We define micromachines as any machine with at least one dimension approximately 1 mm or smaller.

Thanks for the suggestions. Yes, I would like to recruit additional members by better publicizing the committee at the conferences and workshops we will sponsor. I would also like to hold committee meetings as part of the Micro-Actuators and Micro-Mechanisms conference

Please let me know if more detail is needed. I would also appreciate recommendations for improving the plan. Thanks,