

## The 2nd Korea-Japan Metamaterials Forum

Following the successful and friendly meeting of [the 1st Korea-Japan Metamaterials Forum](#) held at Ewha Womans University in July, 2011, we plan the 2nd Forum as follows:

**Date:** June 28 (Thu) – 30 (Sat), 2012

**Place:** [Tsukuba International Congress Center](#), Tsukuba, Japan. The Congress Center is located in the central area of Tsukuba city and about 12 minutes by walk from Tsukuba Station and Tsukuba Bus Center.

**Conference Co-Chairs:** Prof. Jeong Weon Wu (*Ewha Womans University, Korea*) and Prof. Masanori Hangyo (*Osaka University, Japan*)

**Program Committee Co-Chairs:** Byoung-ho Lee (*Seoul National University, Korea*) and Takuo Tanaka (*RIKEN, Japan*)

**Local Executive Committee Chair:** Kazuaki Sakoda (*NIMS, Japan*)

**Organized by** Grant-in-Aid for Scientific Research (KAKENHI) on Innovative Areas "Electromagnetic Metamaterials", MEXT, Japan and Quantum Metamaterials Research Center, Ewha Womans University, Korea

**Supported by** National Institute for Materials Science, Japan

**Mode of presentation:** Invited talks and contributed posters.

**Abstracts:** Please submit two-page summary to [sakoda.kazuaki@nims.go.jp](mailto:sakoda.kazuaki@nims.go.jp) using attached template in pdf (recommended) or word format **by June 18**.

**Accommodations:** There are several hotels around the Congress Center. The following hotels are our recommendation. Please reserve rooms by yourselves.

1. Okura Frontier Hotel Tsukuba Epochal  
Connected to the Congress Center and 12 minutes walk from Tsukuba Station.  
2-20-1, Takezono, Tsukuba City, 305-0032  
TEL: +81-29-860-7700  
URL <http://www.okura-tsukuba.co.jp/eng/>
2. Okura Frontier Hotel Tsukuba  
2 minutes walk from Tsukuba Station and 10 minutes walk from the Congress Center.  
1, Azuma, Tsukuba City, 305-0031  
TEL: +81-29-852-1112  
URL <http://www.okura-tsukuba.co.jp/eng/>
3. Daiwa Roynet Hotel Tsukuba  
1 minute walk from Tsukuba Station and 12 minutes walk from the Congress Center.  
1-5-7 Azuma, Tsukuba City  
TEL : +81-29-863-3755  
URL <http://www.daiwaroynet.jp/english/locate.html>
4. Hotel Grand Shinonome  
8 minutes walk from Tsukuba Station and 14 minutes walk from the Congress Center.  
488-1, Onozaki, Tsukuba City, 305-0034  
TEL: +81-29-856-2211  
URL <http://www.hg-shinonome.co.jp/>

**The 2nd Japan-Korea Metamaterials Forum (2012)**

June 28 (Thu)	June 29 (Fri)	June 30 (Sat)
<b>Opening Remark (Masanori Hangyo)</b> 9:00 - 9:10	<b>Session 5 (Chair: Yasushi Horii)</b> 9:00 - 10:30	<b>Session 7 (Chair: Yoshiaki Kanamori)</b> 9:00 - 10:30
<b>Session 1 (Chair: Takuo Tanaka)</b> 9:10 - 10:40	<p><b>[IT11] Masaru Onoda (Akita Univ)</b> A perspective on spinning modes in topological photonic media</p> <p><b>[IT12] Byoung-ho Lee (Seoul Nat'l Univ)</b> Polarization-manipulated unidirectional excitation of surface plasmon polaritons from metallic nano-slit</p> <p><b>[IT13] Tetsuya Ueda (Kyoto Inst Tech)</b> Recent progress on nonreciprocal CRLH metamaterials and their application to antennas</p>	<p><b>[IT17] Toshihiro Nakanishi (Kyoto Univ)</b> Enhancement of second harmonic generation in coupled-resonator-based metamaterials</p> <p><b>[IT18] Kyoung-Youm Kim (Sejong Univ)</b> Angular momentum of surface modes in metamaterial waveguides</p> <p><b>[IT19] Osamu Sakai (Kyoto Univ)</b> Tunable and nonlinear metamaterials activated by gas-discharge plasmas</p>
<p><b>[KL] Kikuo Cho (Osaka Univ) (60 min)</b> Metamaterials study from physics point of view: First-principles theory of macroscopic "electric, magnetic, and chiral" susceptibilities</p> <p><b>[IT1] Jeong Weon Wu (Ewha Womans Univ)</b> Optical rotatory dispersion and femtosecond magnetism in chiral metamaterials</p>		
Coffee Break 10:40 - 11:10	Coffee Break 10:30 - 11:00	Coffee Break 10:30 - 11:00
<b>Session 2 (Chair: Bumki Min)</b> 11:10 - 12:40	<b>Session 6 (Chair: Byoung-ho Lee)</b> 11:00 - 12:30	<b>Session 8 (Chair: Toshihiro Nakanishi)</b> 11:00 - 12:00
<p><b>[IT2] Takuo Tanaka (RIKEN)</b> Self-organized assembling techniques for optical metamaterials</p> <p><b>[IT3] Kihong Kim (Ajou Univ)</b> Surface waves in inhomogeneous optical media and metamaterials</p> <p><b>[IT4] Bongseok Choi (NIMS)</b> Direct control of lanthanide photoemission using plasmonic metasurfaces</p>	<p><b>[IT14] Yasushi Horii (Kansai Univ)</b> Super-compact LTCC-based multi-layered CRLH transmission lines for UWB applications</p> <p><b>[IT15] Jonghwa Shin (KAIST)</b> Metamaterial from material science's point of view</p> <p><b>[IT16] Hiroshi Miyazaki (Tohoku Univ)</b> Phase diagram of interface electromagnetic waves on chiral metamaterials</p>	<p><b>[IT20] Muhan Choi (ETRI)</b> Flexible metamaterials with various functionalities on polymer substrate</p> <p><b>[IT21] Yoshiaki Kanamori (Tohoku Univ)</b> Microelectromechanical metamaterials for optical communications system</p>
Lunch 12:40 - 14:00	Lunch 12:30 - 14:00	<b>Closing Remark (Jeong Weon Wu)</b> 12:00
<b>Session 3 (Chair: Kihong Kim)</b> 14:00 - 15:30	<p align="center"><b>Poster Session</b> (Room 405) 14:00 - 16:00</p>	<p align="center"><b>Lab Tour</b> 15:00 - 17:00</p>
<p><b>[IT5] Masanobu Iwanaga (NIMS)</b> Underlying eigen modes at unusual light propagation in photonic metamaterials</p> <p><b>[IT6] Bumki Min (KAIST)</b> Gate-controlled active graphene metamaterials for manipulation of terahertz waves</p> <p><b>[IT7] Keisuke Takano (Osaka Univ)</b> Terahertz radiation from meta-atom-loaded photoconductive antennas</p>		
Coffee Break 15:30 - 16:00		
<b>Session 4 (Chair: Masanobu Iwanaga)</b> 16:00 - 17:30		
<p><b>[IT8] Nigel Johnson (Glasgow Univ)</b> Optical metamaterials for organic sensing</p> <p><b>[IT9] Wakana Kubo (RIKEN)</b> Plasmonic nanostructures fabricated by nanocoating lithography</p> <p><b>[IT10] Sam Hyeon Lee (Yonsei Univ)</b> Highly tunable acoustic metamaterials based on a resonant tubular array</p>		
<b>Reception (Room 201)</b> 18:00 - 19:30		

## **Title of your contribution for Korea-Japan Metamaterials Forum 2012**

First\_name Surname\* and First\_name Surname

*Professional Affiliation and Address*

*\*E-mail:e-mailaddress@e-mailaddress*

Contents are 2 pages with the single-spaced line spacing in the font of Times New Roman 11 pt. You can put figures in the body of contents. In the end, there is a reference section. You can put acknowledgment before the reference section.

### **References**

- 1.
- 2.