# International Workshop on Conformal Dynamics and Loewner Theory 2018

**Date:** September 5 (Wed) – 7 (Fri), 2018  
**Venue:** Graduate School of Information Science (GSIS), Tohoku University  
2nd floor, Middle Lecture Room

## PROGRAM

### September 5 (Wednesday)

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<th>Time</th>
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<td>11:00 – 12:00</td>
<td>Registration</td>
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<td>13:30 – 13:40</td>
<td>Opening</td>
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| 13:40 – 14:30 | **David Shoikhet** (Holon Institute of Technology, Israel)  
*Nonlinear resolvent of holomorphic generators* |
| 14:40 – 15:30 | **Mark Elin** (ORT Braude College, Israel)  
*Continuous and holomorphic semicocycles in Banach spaces* |
| 15:50 – 16:40 | **Santiago Díaz-Madrigal** (University of Seville, Spain)  
*On the rate of convergence of semigroups of holomorphic self-maps at the Denjoy-Wolff point* |
| 16:50 – 17:40 | **Pavel Gumenyuk** (University of Stavanger, Norway)  
*Becker’s criterion for quasiconformal extendibility and the λ-Lemma* |

### September 6 (Thursday)

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<th>Time</th>
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| 10:00 – 10:50 | **Takahiro Hasebe** (Hokkaido University, Japan)  
*Loewner chains, Markov processes and monotone increment processes* |
| 11:00 – 11:50 | **Hiroshi Yanagihara** (Yamaguchi University, Japan)  
*Loewner theory on analytic universal covering maps* |
| 13:20 – 14:10 | **Gabriela Kohr** (Babeș-Bolyai University, Romania)  
*Loewner chains, extremal results and approximation properties associated with univalent mappings in $\mathbb{C}^n$* |
| 14:20 – 15:10 | **Hidetaka Hamada** (Kyushu Sangyo University, Japan)  
*g-Loewner chains, Bloch functions and extension operators* |
15:30 – 16:20 | Mihai Iancu (Babeș-Bolyai University, Romania)
On spiralshapelike mappings on the unit ball in higher dimensions

16:30 – 17:10 | Mirela Kohr (Babeș-Bolyai University, Romania)
Layer potentials and Poisson problems for elliptic systems in Lipschitz domains. Applications

18:30 – 21:00 | Banquet at Mia Angela Ichibancho (Fee: 4000–5000 JPY)

September 7 (Friday)

10:00 – 10:50 | Shinji Koshida (University of Tokyo, Japan)
Schramm-Loewner evolution with internal degrees of freedom

11:00 – 11:50 | Yoshiki Fukusumi (University of Tokyo, Japan)
Liouville field theory and Schramm Loewner evolutions
Lunch

13:30 – 14:20 | Takuya Murayama (Kyoto University, Japan)
Chordal Komatu-Loewner equation for a family of continuously growing hulls

14:30 – 15:20 | Ikkei Hotta (Yamaguchi University, Japan)
Hydrodynamic limit of multiple SLE

15:20 – 15:30 | Closing

Loewner Workshop 2018 in Japan

Hosted by
- The Research Center for Pure and Applied Mathematics (RCPAM)
- Graduate School of Information Sciences (GSIS), Tohoku University

Supported by
- KAKENHI Grant-in-Aid for Young Scientists (B) (17K14205) PI: Ikkei Hotta
- KAKENHI Grant-in-Aid for Scientific Research (B) (17H02847), PI: Toshiyuki Sugawa
- KAKENHI Grant-in-Aid for Scientific Research (C) (16K05206) PI: Hiroshi Yanagihara

Organizers:
- Ikkei Hotta (Yamaguchi Univ., Chief Organizer)
- Toshiyuki Sugawa (Tohoku Univ., Local Organizer)