

**[TuC3] Nanoelectromechanics and Carbon Nanotubes**
**Date / Time** July 3 (Tue.), 2018 / 15:55-17:40

**Place** Room C (#107)

**Session Chair** Hyoung Joon Choi (Yonsei Univ., Korea)  
A. T. Charlie Johnson (Univ. of Pennsylvania, USA)

**TuC3-I1 (Invited)** 15:55-16:20

**Mechanically Induced Thermal Breakdown in Magnetic Shuttle Structures**

O. A. Ilinskaya<sup>1</sup>, S. I. Kulinich<sup>1</sup>, I. V. Krive<sup>1</sup>, R. I. Shekhter<sup>2</sup>, H. C. Chul<sup>3</sup>, and Mats Jonson<sup>2</sup>  
<sup>1</sup>FTINT, Ukraine <sup>2</sup>Univ. of Gothenburg, Germany, <sup>3</sup>IBS Daejeon, Korea

**TuC3-I2 (Invited)** 16:20-16:45

**Spin Precession in Spin-Orbit Coupled Weak Links: Coulomb Repulsion and Pauli Quenching**

Robert Shekhter<sup>1</sup>, Ora Entin-Wohlman<sup>2</sup>, Mats Jonson<sup>1</sup>, and Amnon Aharony<sup>2</sup>  
<sup>1</sup>Univ. of Gothenburg, Sweden, <sup>2</sup>Ben Gurion Univ., Israel

**TuC3-O3** 16:45-17:00

**Theory Ofthermoelectric Effects of Impurity-Doped Carbon Nanotubes**

Takahiro Yamamoto and Hidetoshi Fukuyama  
Tokyo Univ. of Science, Japan

**TuC3-I4 (Invited)** 17:00-17:25

**Science of Macroscopically Self-Aligned Carbon Nanotubes**

Junichiro Kono  
Rice Univ., USA

**TuC3-O5** 17:25-17:40

**Microstructure Evolution and Self-Assembling of CNT Networks during Mechanical Stretching and Mechanical Properties of Highly Aligned CNT Composites**

Jin Gyu Park, Claire Jolowsky, Rebekah Sweat, Yi-Feng Su, Ayou Hao, and Richard Liang  
Florida State Univ., USA