

# The 21<sup>st</sup> JUACEP Workshop



*Research presentations by the 2017 medium-term course students of JUACEP at Univ. Michigan/UCLA*

**Date... 9:10-11:50, Tuesday, February 27, 2018**

**Venue... IB 013**

## Timetable

Time	Name (Affiliation at NU)	Presentation title	Advisor at US
<b>9:10</b>	Opening address		
<b>9:15</b>	<b>Tatsuya Okamoto</b> (Prof. N. Umehara Micro-Nano Mechanical Science and Engineering)	Ab initio molecular dynamics simulation about dielectric properties of boron-doped diamond-like carbon	Prof. Jay Guo Electrical Engineering and Computer Science, U. Mich.
<b>9:30</b>	<b>Makoto Takeuchi</b> (Prof. N. Umehara Micro-Nano Mechanical Science and Engineering)	Thin alumina films via colloidal processing of flame made nanopowders	Prof. Richar Laine Materials Science and Engineering, U. Mich.
<b>9:45</b>	<b>Makoto Terada</b> (Prof. N. Umehara Micro-Nano Mechanical Science and Engineering)	Forces: the quantitative values of sharpened and blunt microwire for in-vivo brain insertion	Prof. Albert Shih Mechanical Engineering, U. Mich.
<b>10:00</b>	<b>Yudai Suzuki</b> (Assoc. Prof. D. Tsubakino Aerospace Engineering)	Failure detection and control of distributed electrical propulsion aircraft engines	Prof. Anouck Girard Aerospace Engineering, U. Mich.
<b>10:15</b>	<b>Hiroki Fujiwara</b> (Assoc. Prof. A. Iwakawa Aerospace Engineering)	Demonstration of digital in-line holography for primary breakup of water column	Prof. Mirko Gamba Aerospace Engineering, U. Mich.
<b>10:30</b>	Break		
<b>10:40</b>	<b>Kai Iio</b> (Prof. K. Hori Biomolecular Engineering)	Artificial bacteria trails influence surface movement	Prof. Gerard Wong Bioengineering, UCLA
<b>10:55</b>	<b>Taro Mizutani</b> (Prof. E. Shamoto Aerospace Engineering)	Analysis of assembly line with learning effects	Prof. Jack Hu Mechanical Engineering, U. Mich.
<b>11:10</b>	<b>Yusuke Fukui</b> (Prof. Y. Yamada Mechanical Systems Engineering)	Developing immersive virtual realities for human upper limb motor recovery after stroke	Prof. Jacob Rosen Mechanical and Aerospace Engineering, UCLA
<b>11:25</b>	<b>Fuga Matsubara</b> (Prof. Y. Ju Micro-Nano Mechanical Science and Engineering)	Shelf-life testing of bioink-containing pharmaceutical tablets for 3D pharming	Prof. Benjamin Wu Bioengineering, UCLA
<b>11:40</b> <b>11:50</b>	Completion Ceremony Adjournment		

*\*10 minutes presentation + 4 minutes Q&A for each*

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