International Conference on Business and Technology Transfer / Technology and Society (ICBTT/TS 2018)

Date: October 29 - 30, 2018

Venue: Northumbria University Newcastle, Newcastle-upon-Tyne, UK

### Conference Schedule

**October 29, 2018, Monday**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00</td>
<td>Meeting place - The Great Hall, Sutherland Building, Northumbria University, City Campus Newcastle upon Tyne, NE1 8ST, United Kingdom</td>
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<tr>
<td>10:00-10:30</td>
<td>Registration - The Great Hall, Sutherland Building, Northumbria University</td>
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| 10:30-12:00 | Workshop “Society and Technology”  
ICBTT2018-1029-AM-WS:  
Knowledge Transfer in the UK  
David Charles (Northumbria University), Falk Strotebeck (North Rhine-Westphalia) |
| 12:30-14:00 | Lunch |
| 14:00-14:15 | Opening Ceremony (Host: Professor John F. Wilson, Professor Keiichi Watanuki)  
Address from Professor Niro Nagai, Head of Technology and Society Division, JSME  
Address from Professor John Wilson, Conference Co-Chairs  
Announcement of ICBTT/TS2018 from Professor Keiichi Watanuki, Conference Co-Chairs |
14:15-15:15  Oral presentation session (Chair: Kohei Nakashima (Meijo University))

ICBTT2018-1029-PM-01:
The Minimum Age for PBL Education Using a Robot - Investigation of the Interest Level of Young Children in a Robot They Assembled Themselves – Tomoaki Sato (Kanagawa Institute of Technology)

ICBTT2018-1029-PM-02:
Influence of childhood activities on engineering anticipation capability and capability reinforcement through PBL
Keiichiro Takato (Nishinippon Institute of Technology), Toshiro Maezono, Susumu Shirayama (The University of Tokyo)

ICBTT2018-1029-PM-03:
Skill-shortages in the Construction Industry: High School Students’ Perceptions of a Career in the Industry
M. Hugo (McCarthy & Stone Retirement Lifestyles Ltd), V. Samwinga (Northumbria University), T. E. Butt

15:15-15:35  Coffee break

15:35-16:35  Oral presentation session (Chair: Tomoaki Sato (Kanagawa Institute of Technology))

ICBTT2018-1029-PM-04:
Growing the Development Skills of Engineering Students in Extracurricular Activities of Vehicle Manufacturing
Kohei Nakashima (Meijo University)

ICBTT2018-1029-PM-05:
The Study on Elements of Manufacturing Activities and Technical Education in the Curriculum of "The Dewey Experimental School"
Motoko Tanabe (Kanagawa Institute of Technology)

ICBTT2018-1029-PM-06:
Implications of the Feasibility Process within the Construction Cycle: Initiation to handover
L. D. Jenkinson (Northumbria University), T. E. Butt, K. T. Anyigor

18:00-20:00  Banquet - The Great Hall, Sutherland Building, Northumbria University, City Campus
October 30, 2018, Tuesday

9:00-10:00  Oral presentation session (Chair: Akira Hoshi (Tohoku Gakuin University))

ICBTT2018-1030-AM-01:
Development of Design Portfolio Progress Support System Using RFID and Its Application to Mechanical Design
Seiji Komiya (Kanagawa Institute of Technology)

ICBTT2018-1030-AM-02:
Development of Advanced Healthcare Equipment Using HMI/BMI and IoT/VR/AI Technologies
Keiichi Watanuki (Saitama University)

ICBTT2018-1030-AM-03:
Generation Gap and BIM Technology Adoption
M. Curda (Northumbria University), M. C. Littlemore, T. E. Butt

10:00-10:30  Break

10:30-12:10  Oral Presentation session (Chair: Keiichiro Takato (Nishinippon Institute of Technology))

ICBTT2018-1030-AM-04:
Advances and Opportunities in Air-conditioning System Utilizing Shallow Geothermal Energy
Niro Nagai (University of Fukui)

ICBTT2018-1030-AM-05:
Transformation of Ethanol/ Biodiesel Mixed Fuel into Jet Fuel - Proof-of-Concept Experiment Using a Micro Gas Turbine –
Tomoaki Sato (Kanagawa Institute of Technology), Shota Koyama, Kento Kainose

ICBTT2018-1030-AM-06:
Effective Use of the Waste Heat from a Rocket Stoves
Kazuki Oda (Tohoku Gakuin University), Akira Hoshi

ICBTT2018-1030-AM-07:
Design and Manufacture of Stirling Engine Car for Teaching Material
Tatsuhiro Sasaki (Tohoku Gakuin University), Akira Hoshi
ICBTT2018-1030-AM-08:
Development and Class Practice of Solar Heat Power Generation Device
Toshikazu Yamamoto (Saitama University), Koji Ogikubo, Misao Negishi
(Negishi Co., Ltd.), Riku Nakamaruo (Iruma Municipal Kamifujisawa Junior
High School)

12:10-13:30  Lunch

13:30-14:30  Northumbria University guided tour of technical labs and workshops with
technician

14:30-16:30  Tour of Newcastle city centre with professional regional guide