## Joint International Symposium on Sustainable Development and Environmental Issues

### 17 December 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Session/Panel</th>
<th>Topic</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>13:00 - 13:10</td>
<td>Welcome address by Prof. Koetsu YAMAZAKI, President of Kanazawa University</td>
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<tr>
<td>13:10 - 13:15</td>
<td>Seiya NAGAO, Kanazawa University</td>
<td>Introduction of the international symposium &quot;Integrated Environmental Studies&quot;</td>
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<tr>
<td>13:15 - 13:20</td>
<td>Photo session</td>
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<tr>
<td>13:20 - 13:40</td>
<td>Session 1: Atmospheric Environment session</td>
<td>Characteristics of chemical compositions of ambient PM2.5 across the Taiwan strait</td>
<td></td>
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<tr>
<td>14:00 - 14:20</td>
<td>Session 3: Marine Environment</td>
<td>Distribution and health risk of indoor and outdoor particulate polycyclic aromatic compounds of a school classroom in Beijing, China.</td>
<td></td>
</tr>
<tr>
<td>14:20 - 14:40</td>
<td>National University of Mongolia</td>
<td>Variation of the properties of atmospheric aerosols in typical Asian desert regions</td>
<td></td>
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<tr>
<td>14:40 - 15:40</td>
<td>Session 2: Integrated Environment</td>
<td>poster session partly supported by MJEEED program</td>
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<tr>
<td>15:40 - 16:00</td>
<td>Koji HAMASAKI, Tokyo University</td>
<td>Dynamics of microbes and organic matter at the air-sea interface: insights from an observational study in Tsukumo Bay, Noto Peninsula, Japan</td>
<td></td>
</tr>
<tr>
<td>16:00 - 16:20</td>
<td>Hisanori IWAI, Kanazawa University</td>
<td>Separation of polycyclic aromatic hydrocarbon associated with humic substances</td>
<td></td>
</tr>
<tr>
<td>16:20 - 16:40</td>
<td>Jr-Chuan HUANG, National Taiwan University</td>
<td>More Efficient Carbon Sink via Chemical Weathering in Low-mountains than High-mountains under Climate Change</td>
<td></td>
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<tr>
<td>16:40 - 17:00</td>
<td>Session 3: Marine Environment</td>
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<tr>
<td>17:00 - 17:20</td>
<td>Alexandre CHARKIN, V.I. Il'chev Pacific Oceanological Institute, FEBRAS</td>
<td>Hydrochemistry and isotopic signatures of submarine groundwater discharge at a section along the Lena River Delta, Laptev Sea</td>
<td></td>
</tr>
<tr>
<td>17:20 - 17:40</td>
<td>Genji TERAUCHI, Northwest Pacific Region Environmental Cooperation Center</td>
<td>Spatio-temporal variability of seagrass beds detected by remote sensing in western Nanao Bay</td>
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<table>
<thead>
<tr>
<th>Time</th>
<th>Session 4: Marine Environment 2</th>
<th>Topic</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>9:30 - 9:50</td>
<td>Mutsuo INOUE, Kanazawa University</td>
<td>Seawater circulation in the Sea of Japan: Implications from radiocesium</td>
<td></td>
</tr>
<tr>
<td>9:50 - 10:10</td>
<td>Hiroto KAWASHIMA, Akita Prefectural University</td>
<td>Source identification for pollution in various environment using stable isotope</td>
<td></td>
</tr>
<tr>
<td>10:10 - 10:30</td>
<td>Edward G. NAGATO, Shimane University</td>
<td>Understanding the growth of microplastics in the aquatic environment</td>
<td></td>
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<tr>
<td>10:30 - 10:50</td>
<td>Witsaroot Sripumkhai, National Electronics and Computer Technology Center</td>
<td>Superhydrophobic surface with antifouling properties for marine applications</td>
<td></td>
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<tr>
<td>10:50 - 11:10</td>
<td>Break</td>
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<table>
<thead>
<tr>
<th>Time</th>
<th>Session 5: Human Health &amp; Ecosystem</th>
<th>Topic</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>11:10 - 11:30</td>
<td>Masato HONDA, Kanazawa University</td>
<td>The pollution of Neonicotinoid insecticides in human around Japan sea area</td>
<td></td>
</tr>
<tr>
<td>11:30 - 11:50</td>
<td>Chong HAN, Northeastern University</td>
<td>Size dependence of the physical characteristics of particles containing refractory black carbon in diesel vehicle exhaust</td>
<td></td>
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<tr>
<td>11:50 - 12:10</td>
<td>Xia MENG, Fudan University</td>
<td>Estimating PM2.5 concentrations in Northeast China using an integrated random forest approach</td>
<td></td>
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<tr>
<td>12:10 - 12:20</td>
<td>Closing remarks by Prof. Seiya NAGAO, Kanazawa University</td>
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# Chozen International Symposium on Transboundary Pollution at North-South Transect at Marginal Sea in western Pacific Ocean

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<thead>
<tr>
<th>Time</th>
<th>Session 1: Atmospheric Environment</th>
<th>Session 2: Marine Environment</th>
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<tr>
<td>13:30 - 13:40</td>
<td>Welcome speech</td>
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</tr>
<tr>
<td>13:40 - 14:00</td>
<td>Seiya NAGAO, Kanazawa University</td>
<td>Overview of the project &quot;Spatial distribution of trans-boundary pollution and related environmental phenomena in marginal sea area of western Pacific Ocean&quot;</td>
</tr>
<tr>
<td>14:00 - 14:20</td>
<td>Kazuichi HAYAKAWA, Kanazawa University</td>
<td>Recent Atmospheric Pollution Caused by Polycyclic Aromatic Hydrocarbons in Far-Eastern Asia — Japan-China-Korea-Russia International Collaboration Study —</td>
</tr>
<tr>
<td>14:20 - 14:40</td>
<td>Pham Chau THUY, Vietnam National University of Agriculture</td>
<td>PAHs and NPAHs emission from open burning of rice straw in Hanoi, Vietnam</td>
</tr>
<tr>
<td>14:40 - 15:00</td>
<td>Stephen B. POINTING, Yale NUS</td>
<td>Global Atmospheric Microbiome. The content will be transboundary changes in airborne microbial populations</td>
</tr>
<tr>
<td>15:00 - 15:20</td>
<td>Teppei J. YASUNARI, Hokkaido University</td>
<td>Wildfire smoke transport to Hokkaido, and our portable PM2.5 sensor system for cold regions</td>
</tr>
<tr>
<td>15:20 - 15:40</td>
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<td>Break</td>
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**19 December 2019**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session 3: North-South transect network</th>
<th>Session 3 (continues): North-South transect network</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:30 - 9:40</td>
<td>Seiya NAGAO, Kanazawa University</td>
<td>Importance of global research network on atmosphere-marine linkage studies from north to south transect</td>
</tr>
<tr>
<td>9:40 - 10:00</td>
<td>Yasushi FUKAMACHI, Hokkaido University</td>
<td>Studies of the Arctic Ocean at Hokkaido University</td>
</tr>
<tr>
<td>10:00 - 10:20</td>
<td>Tung-Yuan HO, Research Center for Environmental Changes, Academia Sinica, Taiwan</td>
<td>PM 2.5 trace metal biogeochemistry in the Northwestern Pacific Ocean</td>
</tr>
<tr>
<td>10:20 - 10:40</td>
<td>Koji SUZUKI, Hokkaido University</td>
<td>Seasonal changes in phytoplankton assemblages and their controlling factors in surface waters of the North Pacific Ocean</td>
</tr>
<tr>
<td>10:40 - 11:00</td>
<td></td>
<td>Coffee Break</td>
</tr>
<tr>
<td>11:00 - 11:20</td>
<td>Yugo KANAYA, Japan Agency for Marine-Earth Science and Technology</td>
<td>Evolution of regional air pollution in East Asia: Elucidation of BC emission trend and broadening scope to the Arctic/open oceans</td>
</tr>
<tr>
<td>11:40 - 12:00</td>
<td>Masahiko HAYASHI, Fukuoka University</td>
<td>Antarctic krill in the Southern Ocean ecosystem: its role and importance</td>
</tr>
<tr>
<td>12:00 - 12:20</td>
<td>So KAWAGUCHI, Australian Antarctic Division</td>
<td>Low altitude remote sensing for mapping nearshore marine environments</td>
</tr>
<tr>
<td>12:20 - 12:40</td>
<td>Barbara BOLLARD, Auckland University of Technology</td>
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**12:40 - 12:50** Poster Award Ceremony

**12:50 - 13:00** Closing remarks by Prof. Seiya NAGAO, Kanazawa University