


## MEMBER PROFILE

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| <b>Study areas</b>  |                 |
|---------------------|-----------------|
| Countries / Regions | Japan, Cambodia |

| <b>Topics of last three projects</b> |  |
|--------------------------------------|--|
| 1                                    | UNEP GEMS/Water Programme, National centre, Japan  |
| 2                                    | UNESCO MAB-IHP Joint Programme Ecological and Hydrological Research and Training for Young Scientists in Tonle Sap Biosphere Reserve, Cambodia |
| 3                                    | Environment Research Development in Angkor, Cambodia   |

| <b><u>Topics of last 10 publications</u></b> |  | <b><u>Publication links</u></b> |
|--|--|---------------------------------|
| 1  | Oyagi, H., Hang, P. and Tsukawaki, S. (2014): The distribution of nutrient substance and dissolved oxygen around the inundated forest in lake Tonle Sap, Cambodia. Water Sustainability: new challenges and solutions, IGU, Department of Geography Faculty of Science |                                 |
| 2  | Tsukawaki, S. and Team ERDAC *1 (2009): International Symposium on the Present Situation of the Environment in Angkor Park and Surroundings. The 18th Technical Committee, International Coordinating Committee for the Safeguarding and Development of the History... |                                 |
| 3  | Oyagi, H., (2006): Physicochemical characteristics and their formation mechanism of Lake Waku-ike, Japan. Societas Internationalis Limnologiae, 29, 4, pp.1817-1820.   |                                 |
| 4  | Furuuchi, M., Murase, T., Yamashita, M., Oyagi,H., Sakai, K., Tsukawaki, S., Sotham, S., and Hata, M.,(2006): Temperature distribution and air pollution in Phnom Penh, Cambodia-Influence of land use and the Mekong and Tonle Sap rivers, Aerosol and Air Quality    |                                 |
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## Research interests in water

|                                     |                                 |                                      |  |                       |                       |                  |                    |              |                      |                     |
|-------------------------------------|---------------------------------|--------------------------------------|--|-----------------------|-----------------------|------------------|--------------------|--------------|----------------------|---------------------|
| <b>Climate &amp; Water</b>          | Water in arid areas             | Arctic water                         | Water cycle                            | Atmospheric water     | Glaciers & Cryosphere |                  |                    |              |                      |                     |
| <b>Hydrological extreme events</b>  | Floods                          | Droughts                             | Ice phenomena                          |                       |                       |                  |                    |              |                      |                     |
| <b>Water flow</b>                   | Catchment processes             | Run-off generation                   | Groundwater-Surface water interactions | Hyporheic processes   | Interstitial water    | Porewater        | Alluvial water     |              |                      |                     |
| <b>Surface water</b>                | Limnology                       | Fluvial dynamics                     | Continental scale processes            | Dams / Reservoirs     | Sediments             | Rivers           | Floodplains        |              |                      |                     |
| <b>Ground water</b>                 | Soil water                      | Karst water                          | Hydrogeology                           | Recharge              |                       |                  |                    |              |                      |                     |
| <b>Marine Environment</b>           | Coastal waters                  | Estuarian waters                     |  |                       |                       |                  |                    |              |                      |                     |
| <b>Aquatic habitats/ Ecosystems</b> | Wetlands                        | Lakes                                | Peatlands                              | Rivers                |                       |                  |                    |              |                      |                     |
| <b>Water availability</b>           | Water utility                   | Water storage                        | Dams / Reservoirs                      | Water scarcity        | Supply & Distribution | Water allocation | Water restrictions |              |                      |                     |
| <b>Modelling and GIS</b>            | Hydro GIS                       | Groundwater modelling                | Surface water modelling                | Remote sensing        |                       |                  |                    |              |                      |                     |
| <b>Water quality</b>                | Pollution                       | Purification                         | Hydrochemistry                         | Treatment             | Desalination          | Waste water      | Sewage             |              |                      |                     |
| <b>Water &amp; Health</b>           | Water & Sanitation              | Water & Food                         | Waterborne diseases                    | Drinking water        | Water purification    |                  |                    |              |                      |                     |
| <b>Water &amp; Energy</b>           | Water-Energy nexus              | Water for energy                     | Energy for water                       | Water, Food & Energy  |                       |                  |                    |              |                      |                     |
| <b>Water management/ policy</b>     | Integrated Catchment management | Integrated water resource management | Water loss                             | Reticulation & Supply | Transboundary water   |                  |                    |              |                      |                     |
| <b>Water use</b>                    | Urban                           | Agricultural                         | Mine water                             | Industrial            | Grey water            | Green water      | Blue water         | Return water | Water sustainability | Competing water use |
| <b>Water Law &amp; Economics</b>    | Water trade                     | Virtual water                        | Privatisation                          | Water as public good  | Right to water        | Bills & Laws     | Affordability      |              |                      |                     |
| <b>Socio-political aspects</b>      | Water history                   | Water wars                           | Water & Poverty                        | Access to water       |                       |                  |                    |              |                      |                     |