

Keio University Murai Lab. 5322 Endo Fujisawa,Kanagawa 252-8520 Japan Tel: +81-466-47-5111 Fax: +81-466-49-1101

## SOI Asia Course "Advanced Marine Science and Technology 2017" by Tokyo University of Marine Science and Technology

Science Course: Jan 23 – Jan 31, 2017 Technology and Logistics Course: Feb 1 – Feb 17, 2017

#### How to join:

All lectures are available online after the sessions, or you can lively attend the lecture on YouTube. For URL and lecture materials, please access to the "edmodo" page for details. You can send questions on Edmodo anytime and professors will answer them during the session or after the classes.

#### How to get certificate:

There 7 lectures for Science course, and 7 lectures for Technology course. Certificates will be issued separately. After listening to the lectures (either realtime or online), submit an assignment for each lecture. All those who submitted assignments for 4 lectures of your interest out of 7 of science course, will get a certificate of science course. All thouse who submitted assignments fro 4 lectures of your interest out of 7 technology course, will get a certificate of technology course. Certificates will be issued jointly from SOI Asia and Tokyo University of Marine Science and Technology. You can submit assignments through Edmodo too.

#### How to join edmodo:

Please see attached instruction.

#### Student presentation:

Student session is scheduled on Jan 31, morning. If you are interested in presenting you work to peers, please contact to <u>secretariat@soi.asia</u>.

#### Schedule of Marine Science Lectures:

<u>#1 Jan 23 (Mon) 13:00-14:30</u> Emiko Okazaki TItle: Utilization of seafood in Japan Keywords: Human consumption, health awareness, Functional properties, Japanese



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traditional seafood products, Surimi and surimi-based products, Extensive utilizatio

<u>#2 Jan 23 (Mon) 14:45-16:15</u> Naohiro Goto TItle: Trans fatty acid. What is a problem? Keywords: Fat, Trans fatty acid, Isomer, LDL/HDL, Heart attack

<u>#3 Jan 23 (Mon) 16:30-18:00</u>

Shingo Matsukawa Title: Physicochemical property of food; From macroscopic aspects to microscopic aspects Keywords: Food gels, Rheology, DSC, NMR

#### <u>#4 Jan 30 (Mon) 9:00-10:30</u>

Fumiaki Beppu Title: Physiological functions of marine-derived lipids Keywords: Vitamin E, Tocopherol, Carotenoids, Fucoxanthin, DHA/EPA, Obesity, Diabetes

<u>#5 Jan 30 (Mon) 10:45-12:15</u>

Hajime Takahashi Title: How to extend the shelf life of food Keywords: Food Microbiology, Food poisoning bacteria, Growth inhibition

<u>#6 Jan 30 (Mon) 13:00-14:30</u> Kazufumi Osako TItle: Innovative Trial to Develop New Kamaboko Products for Promoting Nutritional Status of Elderly with Dysphagia Keywords: Kamaboko gel, Seafood, Elderly,Dysphagia

#### <u>#7 Jan 31 (Tue.) 9:00-10:30</u>

Mario Shibata

TITle: Smart sensing technique for monitoring food constituents using fluorescence



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#### fingerprint

Keywrods: Spectroscopy, Chemometorics, Non-destructive measurement, Freshness

<u>#8 Jan 31 (Tue) 10:45-12:15</u> Students' Presentations

#### Schedule of Marine Technology and Logistics Lectures:

#### <u>#1 Feb 1 (Wed) 13:00-14:30</u>

Emiko Okazaki Lecturer: Tomoji Takamasa / Department of Marine Electronics and Mechanical Engineering http://olcr.kaiyodai.ac.jp/db/profile.php?yomi=TAKAMASA,Tomoji Title: Collision Avoidance at Sea Keywords: Sea ship battery rapid charging, Environmental protection

#### #2 Feb 1 (Wed) 14:45-16:15

Lecturer: Naoto Iwasaka / Department of Maritime Systems Engineering http://olcr.kaiyodai.ac.jp/db/profile.php?yomi=IWASAKA,Naoto Title: Variations of Sea Surface Temperature Keywords: Sea surface temperature, Surface waves, Langmuir circulation, Mixed layer, Surface heat flux, Argo float

#### <u>#3 Feb 2 (Thu) 10:45-12:15</u>

Lecturer: Toshio Iseki / Department of Maritime Systems Engineering http://olcr.kaiyodai.ac.jp/db/profile.php?yomi=ISEKI,Toshio Title: Ship Stability in Waves Keywords: Ship, Stability, Restoring moment, Center of buoyancy, Response amplitude operator, Parametric oscillation

#### #4 Feb 2 (Thu) 13:00-14:30

Lecturer: Daisuke Watanabe / Department of Logistics and Information Engineering http://olcr.kaiyodai.ac.jp/db/profile.php?yomi=WATANABE,Daisuke



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### Title: Maritime Risk Analysis using Geographic Information System Keywords: Risk management, Geographic information system, Counter-piracy surveillance system

#### <u>#5 Feb 2 (Thu) 14:45-16:15</u>

Lecturer: Yasunori Okumura / Department of Logistics and Information Engineering http://olcr.kaiyodai.ac.jp/db/profile.php?yomi=OKUMURA,Yasunori Title: Introduction to matching theory Keywords: Matching, Game theory, Economics, Colledge adomissions problem, Marrige problem

#### <u>#6 Feb 9 (Thu) 13:00-14:30</u>

Lecturer: Etsuro Shimizu / Department of Marine Electronics and Mechanical Engineering http://olcr.kaiyodai.ac.jp/db/profile.php?yomi=SHIMIZU,Etsuro Title: Autonomous Waterborne People Mover Keywords: Autonomous, Remote control, Ship

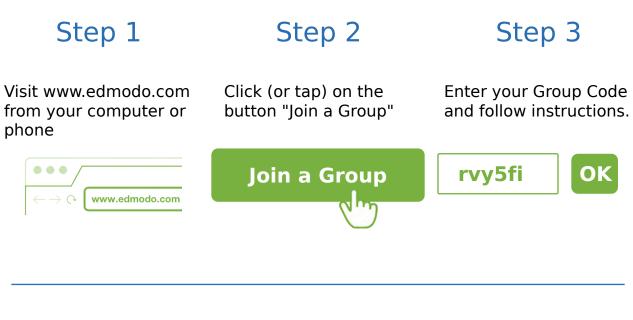
#### <u>#7 Feb 17 (Fri) 13:00-14:30</u>

Lecturer: Junichiro Tahara / Department of Marine Electronics and Mechanical Engineering http://olcr.kaiyodai.ac.jp/db/profile.php?yomi=TAHARA,Junichiro Title: Biomimetic Mobile Robots Using Nonlinear Synchronization Keywords: Biomimetic Mobile Robots Using Nonlinear Synchronization



## SOI Asia & Tokyo University of Marine Science and Technology would like you to join Marine Science and Technology 2017

# Group Code rvy5fi



You can also join this Group from our mobile apps.

