

# **The 2nd Design Symposium on Conservation of Ecosystem (SEASTAR2000)**

**March 18 – 19, 2014**

**Kyoto University Clock Tower Centennial Hall, Kyoto, Japan**

**Organized by Kyoto University Design School**

## **PROGRAM**

**March 18, 2014**

### **Design Workshop**

**12:30-13:00**      **Registration**

**13:00-13:10**      **Opening remarks**

*Nobuaki Arai*

**Session 1**      **Specific problems in terrestrial conservation and management**

**Chair: Lina Koyama**

**13:10-13:40**      **動植物の保全管理と山村-芦生では**

**Conservation and management for plants and animals in mountain area  
-Ashiu village**

*Prof. Emeritus Tetsuro Sakai*

**13:40-14:10**      **モンゴルの野生動物の大移動：衛星技術を用いた解析と保全**

**Great migration of wild animals in Mongolia: analyses and conservation  
using satellite technologies**

*Dr. Takehiko Ito*

**14:10-14:40**      **Social Awareness in the Context of Species Conservation**

**– An illustration with the Ryukyu Flying Fox**

*Dr. Christian Vincenot*

**14:40-15:00**      **Coffee Break**

- Session 2**            **Specific problems in marine conservation and management**  
**Chair: Hiromichi Mitamura**
- 15:00-15:30**        ジュゴン保護を通してみた森里海連環  
**CoHHO for dugong conservation**  
*Prof. Emeritus Hiroshi Mukai*
- 15:30-16:00**        震災後の福島県の漁場環境と海産魚介類への放射性物質の影響  
**Recovery of coastal fishing grounds, and reduction of radioactive cesium concentrations in marine products in Fukushima after the Great East Japan Earthquake and tsunami, and nuclear disasters**  
*Dr. Toshihiro Wada*
- 16:00-16:30**        絶滅危機にある沿岸性鯨類の保全と管理 - 揚子江のイルカを例にして  
**Conservation and Management of endangered coastal cetaceans  
- A case in the Yangtze River**  
*Dr. Satoko Kimura*
- 16:30-16:45**        **Coffee Break**
- Session 3**            **Problem-based Learning**  
**Chair: Nobuaki Arai**
- 16:45-17:45**        **General discussion about designing approaches to solve the problems among experts from various fields**
- 18:00-20:00**        **Reception at *Café Restaurant CAMPHORA***

**March 19, 2014**

**Presentations**

**9:00-9:30**            **Registration**

**9:30-10:00**        **Plenary Talk**

**EFFECT OF WATER TEMPERATURE ON GROWTH AND BEHAVIOR  
OF BLUEFIN TUNA**

*Prof. Emeritus Wataru Sakamoto*

**Session 1 (Oral)**            **Aquatic Ecosystems-1**  
**Chair: Hideaki Nishizawa**

**10:00-10:20**        **001**        **IMPACTS OF FISHING AND HABITAT ON THE DENSITY OF  
BANGGAI CARDINAL FISH (*Pterapogon kauderni*, Koumans  
1933) IN BANGGAI ARCHIPELAGO, INDONESIA**

*Kamaluddin Kasim, Dharmadi, Sri Turni Hartati  
& Gudmundur Thordarson*

**10:20-10:40**        **002**        **MOVEMENT PATTERN OF MEKONG GIANT CATFISH  
MONITORED USING ACOUSTIC TELEMETRY IN KAENG  
KRACHAN RESERVOIR, THAILAND**

*Nao Yoshida, Hiromichi Mitamura, Takuji Noda, Nobuaki Arai,  
Hiroyuki Yamane, Yasushi Mitsunaga & Thavee Viputhanumas*

**10:40-11:00**        **003**        **AN UPDATE ON CONSERVATION MANAGEMENT OF  
GREEN TURTLE (*Chelonia mydas*) IN PANGUMBAHAN  
BEACH, CIRACAP DISTRICT, SUKABUMI REGENCY, WEST  
JAVA, INDONESIA**

*Adriani Sri Nastiti, Fayakun Satria & Ngurah N Wiadnyana*

**11:00-13:00**        **Lunch**

**Session 2 (Oral)**

**Aquatic Ecosystems-2**

**Chair: Satoko Kimura**

- 13:00-13:20**      **004**      **POPULATION SIZES OF BRYDE'S WHALE**  
**(*Balaenoptera edeni*), IN THE UPPER GULF OF THAILAND,**  
**ESTIMATED BY MARK AND RECAPTURE METHOD**  
*Phaothep Cherdsuljai, Surasak Thongsukdee, Surachai Passada &*  
*Theerawat Prempree*
- 13:20-13:40**      **005**      **DIFFERENCES IN ACOUSTIC BEHAVIOR BETWEEN**  
**HARBOR PORPOISE AND DELPHINIDS IN THE ISTANBUL**  
**STRAIT, TURKEY**  
*Saho Kameyama, Ayhan Dede, Tomonari Akamatsu,*  
*Ayaka Amaha Öztürk & Nobuaki Arai*
- 13:40-14:00**      **006**      **AN ACOUSTIC APPROACH TO STUDY**  
**ENERGY EXPENDITURE AND SEAGRASS CONSUMPTION**  
**OF DUGONGS IN DUNGONAB BAY, SUDAN**  
*Kotaro Ichikawa, Badr Eldinn, Khalf alla Adm, Nobuaki Arai,*  
*Abdelmoneim Karamalla Gaiballa & Hiroshi Nawata*
- 14:00-14:20**      **007**      **EFFECTS OF EXTERNAL FACTORS AND SEX STEROID**  
**HORMONE ON VOCAL BEHAVIOR OF A DUGONG (*Dugong***  
***dugon*) IN CAPTIVITY**  
*Yuuki Matsuo, Kotaro Ichikawa, Kodzue Kinoshita, Nobuaki Arai,*  
*Masami Furuta, Yoshihito Wakai & Yukari Handa*
- 14:20-14:35**      **Coffee Break**

**Session 3 (Oral)**

**Terrestrial Ecosystems**

**Chair: Takuji Noda**

**14:35-15:55**

**008**

**ANALYZING STRATEGIES FOR TRAVELING IN FORAGING TRIPS IN ADÉLIE PENGUIN**

*Junichi Takagi, Hiromichi Mitamura, Takuji Noda & Akinori Takahashi*

**15:55-15:15**

**009**

**COMPARISON OF FEEDING KINEMATICS OF FRESHWATER TURTLES: IMPLICATION FOR ADVANTAGE IN INVASIVE SPECIES**

*Hideaki Nishizawa, Runa Tabata, Tomoya Hori, Hiromichi Mitamura & Nobuaki Arai*

**15:15-15:35**

**010**

**MOVEMENT PATTERN OF RAT SNAKES (GENUS *Elaphe*) IN WATER AND ON LAND**

*Runa Tabata, Hideaki Nishizawa, Tomoya Hori, Akira Mori, Hiromichi Mitamura & Nobuaki Arai*

**15:35-15:50**

**Coffee Break**

**Session 4 (Poster)**

**Chair: Kotaro Ichikawa**

**15:50-16:45**

**P001**

**EVALUATION OF POSITIONING ACCURACY USING FREQUENCY-MODULATED TONES FOR BIOTELEMETRY**

*Masahiro Nakagawa, Kotaro Ichikawa, Toyoki Sasakura, Tomio Shinke, Hiromichi Mitamura, Kazuyuki Moriya & Nobuaki Arai*

**P002**

**DEVELOPMENT OF A FINE SCALE ACOUSTIC POSITIONING AND TELEMETRY SYSTEM FOR SCHOOLING BEHAVIOR OF AQUATIC ANIMALS**

*Kazunori Kikuchi, Nobuaki Arai, Hiromichi Mitamura, Kotaro Ichikawa, Ko Fujioka & Hiromu Fukuda*

- P003 A STUDY ON RECEIVERS DEPLOYMENT FOR POSITIONING TELEMETRY OF AQUATIC ANIMALS**  
*Hiroaki Yamoto, Kazuki Kanawa, Nao Yoshida, Tetsuya Otani, Tameo Ozaki, Hiromichi Mitamura & Nobuaki Arai*
- P004 BEHAVIORAL CHARACTERISTIC OF SNOW CRAB IN THE DEEP-SEA PROTECTED AREA**  
*Kazuki Kanawa, Hiroyuki Yamoto, Hiromichi Mitamura, Nobuaki Arai, Tetsuya Ohtani & Tameo Ozaki*
- P005 ESTIMATION OF ENVIRONMENTAL IMPACT OF LARGE ARCHITECTURES BY MONITORING RED SPOTTED GROUPER BEHAVIORS**  
*Yuichiro Mashino, Hiromichi Mitamura, Nobuaki Arai & Hideaki Okamoto*
- P006 A STUDY ON TWO ATTACHMENT METHODS OF TAGS AND ACOSTIC DEVICES FOR MONITORING THE BEHAVIOR OF JAPANESE COMMON SEA CUCUMBER *Apostichopus japonicus***  
*Takumi Fujino, Hiromichi Mitamura, Nobuaki Arai, Reiji Masuda, Hideki Sawada & Kotaro Ichikawa*
- P007 DO SCHOOLING 0-AGE PACIFIC BLUEFIN TUNAS SYNCHRONIZE THEIR GLIDE BEHAVIOR?**  
*Masakazu Ishikawa, Takuji Noda, Hiromichi Mitamura, Ko Fujioka, Hiromu Fukuda & Nobuaki Arai*
- P008 THE RELATIONSHIP BETWEEN DISSOLVED OXYGEN AND BEHAVIOR OF JAPANESE FLOUNDER *Paralichthys olivaceus***  
*Yuka Kono, Hiromichi Mitamura, Nobuaki Arai & Hideaki Nishizawa*
- P009 SPERM ECONOMY IN RELATION TO PAIRED FEMALE SIZE IN SEMELPAROUS SALMONID SPECIES**  
*Yuya Makiguchi, Masaki Ichimura, Takenori Kitayama, Takeru Nemoto, Yuuki Kawabata, Takashi Kitagawa & Takahito Kojima*

**P010 BEHAVIORAL PATTERNS AND HABITAT USE OF THE  
NESTING GREEN TURTLES DURING THE INTER-NESTING  
PERIOD**

*Yuka Obe, Junichi Okuyama, Hideaki Nishizawa & Nobuaki Arai*

**P011 COMPARISON OF SPECTRAL INDICES OF DIFFERENT  
PLANT SPECIES ON THE TOTTORI SAND DUNES USING  
DIGITAL IMAGE**

*Satoshi Kawakita & Lina Koyama*

**P012 FECES DISTRIBUTION OF WILD BOAR (*Sus scrofa*)  
IN THE TOTTORI SAND DUNES**

*Takuma Uozumi, Yanfei Wu & Lina Koyama*

**16:45-17:00 General Discussion and Closing Remarks**