

## 11月20日(火)

9:30 ~ 12:30 アジアフォーラム (南館1F 大輪田A)

### 背景

- (1) アジア地域は、世界の人口の55%を占め、また世界に13ある人口1000万人を超える都市のうち9つが域内に存在し、21世紀を通じて都市化工業化が一層進展すると見込まれている。巨大都市は多くが内湾、河口域などの閉鎖性海域を含む沿岸域に立地しており、閉鎖性海域の環境保全を図るためには、アジアの都市化・工業化を持続可能な形で進める必要がある。
- (2) 1990年代以降、地球温暖化防止のための国際的な取組が進められているが、対策を一層促進させるために、温暖化が生態系や社会経済システムに与える影響を科学的に予測評価する必要がある。閉鎖性海域には、藻場・干潟など貴重な生態系が内在し、その後背地に人口や社会資本等が集積する都市が位置している。これらは海面上昇や洪水、高潮などの自然災害の影響を受けやすい。このため、地球環境の変化と閉鎖性海域との関係についても明らかにしていく必要がある。
- (3) 以上のような状況の下で、アジアの閉鎖性海域の環境保全は、域内各国をはじめ、他の地域の国々、国際機関、学会、民間団体などが協力して進める必要がある。こうした協力を円滑に行うためには、アジアの閉鎖性海域の現状を学際的立場から科学的に明らかにし、人口、資源、環境、開発、土地利用といった広範な分野を総合的にとらえて中長期的な将来展望を行い、国際社会に向けて政策提言を行っていく必要がある。

### 目的

- (1) アジア地域の沿岸域環境の現状、長期展望、政策の方向に関する研究成果の発表と討議。
- (2) 中長期的視点に立ってアジア太平洋沿岸域に関連する調査研究の現状を明らかにし、閉鎖性海域の総合的アセスメントの意義と実現可能性を検討する。

### 企画・構成

アジア太平洋地球変動研究ネットワーク(APN)センター、財団法人地球環境戦略研究機関(IGES) 関西研究センター、財団法人国際エメックスセンター

### 特別協力

国際交流基金

### テーマ

アジアの閉鎖性海域の現状と求められるアセスメントの実現に向けて

## プログラム

- 9:30 - 9:40 [開会]  
 挨拶 茨城大学広域水圏環境科学教育研究センター教授 三村 信男
- 9:40 - 10:00 [発表]  
 巨大都市と沿岸域  
 「広州の都市再開発計画」  
 中国・北京師範大学環境科学研究所助教授 Dr. Jingshan Yu
- 10:00 - 10:20 沿岸域の生態系  
 「東及び東南アジアの沿岸海域生態系」  
 フィリピン大学海洋研究所副所長 Prof. Porfirio M. Aliño
- 10:20 - 10:40 沿岸域の環境汚染  
 「タイ湾の海洋汚染と生態系破壊の現状」  
 タイ・ブラバ大学大学院環境科学研究科長 Dr. Voravit Cheevaporn
- 10:40 - 11:00 沿岸域管理における実践と方向性  
 「沿岸域管理のための海洋環境予測」  
 韓国 - 中国共同海洋研究センター所長 Dr. Dong-Young Lee
- 11:00 - 11:20 アジア沿岸域の将来シナリオ  
 「沿岸域の将来シナリオ」  
 タイ・カセサート大学森林学部教授 Prof. Sanit Aksornkoae
- 11:20 - 11:30 [休憩]
- 11:30 - 12:20 [パネルディスカッション]  
 テーマ：アジア沿岸域総合アセスメントの実現に向けて
- コーディネーター  
 茨城大学広域水圏環境科学教育研究センター教授 三村 信男
- パネリスト  
 国土交通省国土技術政策総合研究所沿岸海洋研究部長  
 細川 恭史  
 タイ・カセサート大学森林学部教授  
 Prof. Sanit Aksornkoae  
 フィリピン大学海洋研究所副所長  
 Prof. Porfirio M. Aliño  
 タイ・ブラバ大学大学院環境科学研究科長  
 Dr. Voravit Cheevaporn  
 韓国 - 中国共同海洋研究センター所長  
 Dr. Dong-Young Lee  
 中国・北京師範大学環境科学研究所助教授  
 Dr. Jingshan Yu
- 12:20 - 12:30 [まとめ] 茨城大学広域水圏環境科学教育研究センター教授 三村 信男

11月20日(火)

12:30 ~ 14:30 NGOフォーラム (南館B1 トパーズ)

### 趣 旨

環境に対する市民意識の変化により、環境保全の考え方は、当初の水質改善、有害物質対策等の公害対策中心のものから、生物多様性の保全、健全な水循環の回復・確保、豊かな自然との触れあいの確保など、自然の営みを見守り育むというものに変化している。

こうした中、EMECS会議の活動が目指す、豊かな生態と水資源を有する沿岸域の環境保全に、市民・NGO関係者の観察力や取り組みと、環境保全事業を実施する行政や研究者等との、有機的なネットワーク形成が不可欠となりつつある。

21世紀初頭に再び神戸で開催する「第5回EMECS会議」では、これまでのEMECS活動を総括するが、同時に、20世紀において解決できなかった閉鎖性海域が直面する様々な課題が惹起されることが想定される。

内外のNGOの活動の特徴には、例えば、開発事業に関し、いち早く情報を得たうえ地域住民に判りやすく情報提供を行う、様々な人や機関との連携、地域の意志決定、地域性に基づくアセスメント等が挙げられている。こうした力により、世界各地の環境問題に対し、地域住民サイドからの地域再生へのアプローチが行われており、各地で大きな成果を發揮しつつある。

このような市民・NGOの視点や能力が未解決の閉鎖性海域の課題に示唆を与えている姿を捉え、このフォーラムの中では、「沿岸域を守るNGOと行政と研究者のパートナーシップのこれから - 瀬戸内海と世界の海を守るNGO活動を通じて考える」をテーマとし、異なる地域や世代間及びNGO、研究者のパートナーシップを目指した議論を展開し、新たなEMECS活動のための具体的な方策を提言する。

テ - マ 沿岸域を守るNGOと行政と研究者のパートナーシップのこれから - 瀬戸内海と世界の海を守るNGO活動を通じて考える -

主 催 環境省、兵庫県、神戸市、(財)国際エメックスセンター  
(財)イオングループ環境財団

特別協力 安田火災環境財団

形 式 (1) 円卓会議  
- コーディネーターを囲んで円卓に座った参加者が討議する。  
(2) 進 行  
- 報告と討議  
- 会場からの随時討議参加  
- まとめの討議

(3) コーディネーター及び円卓参加者

コーディネーター

東梅 貞義(とうばい さだよし) 世界自然保護基金ジャパン(WWFジャパン)

バイスコーディネーター

傘木 宏夫 財団法人公害地域再生センター(あおぞら財団)研究主任

ラポーター

小沢 秀造 瀬戸内の環境を守る連絡会事務局長

円卓参加者

- 海外 -

タイ Mr. Pisit Charnsnoh

Yadfon Association

韓国 Ms. Lee Yujin

Green Korea コーディネーター

- 国内 -

清野 聡子

東京大学大学院助手

小沢 秀造

弁護士 / 瀬戸内の環境を守る連絡会事務局長

辻 淳夫

日本湿地ネットワーク代表(藤前干潟を守る会代表)

松田 治

広島大学生物生産学部教授

小島あずさ

クリーンアップ全国事務局代表

(順不同)

14:30-20:00 分科会

第1分科会 テーマ「沿岸域におけるモニタリングと環境情報の果たす役割」 本館B1 生田

コーディネーター ジャンポール・デュクロトワ (英国・ハル大学教授)

バイスコーディネーター 三村 信男 (茨城大学広域水圏環境科学教育研究センター教授)

ラポーター 柳 哲雄 (九州大学応用力学研究所教授)

口頭発表

14:30-15:10 **Session1-1**

Chair Prof. YANAGI, Tetuo

1-136 Marine Biological Data Management at Japan Oceanographic Data Center

Mr. CHIBA, Tsuyoshi (JAPAN)

Japan Oceanographic Data Center

1-289 Environmentally Sustainable Decommissioning through Constructive Dialogue and Responsible Action:the Case of Frigg Field - North Sea

Mr. SHASTRI, Sunil M. (UNIETD KINGDOM)

Centre for Coastal Studies, the University of Hull

15:30-17:00 **Session1-2**

Chair Prof. DUCROTOY, Jean-Paul

1-162 Estimation of Primary Production Derived Sinking Organic Matter in a Shallow Coastal Sea

Mr. YAMAGUCHI, Hitomi (JAPAN)

Department of Life Sciences, Faculty of Agriculture, Kagawa University

2-071 Historical Load of Pollutants in the Coastal Sediment:Time Trends of Heavy Metal Fluxes in the Water-Sediment Interface in Osaka Bay, Japan, Since 1850 A.D.

Dr. YAMAZAKI, Hideo (JAPAN)

School of Science and Engineering, Kinki University

1-013 Assay of Phosphatase Activity in Tideland Soils and Classification of Tideland Using the Phosphatase Activity Values

Prof. NAKAMURA, Ken-ichi (JAPAN)

Prefectural Hiroshima Women's University

1-217 Research on the Environmental Assessment of Tokyo Bay

Mr. HOSHI, Takanobu (JAPAN)

Japan Institute of Wastewater Engineering Technology

第2分科会 テーマ「陸域と海域の相互作用と理解」 南館B1 ダイヤモンド

コーディネーター ベン・ヤンソン (スウェーデン・ストックホルム大学名誉教授)

バイスコーディネーター 松田 治 (広島大学生物生産学部教授)

ラポーター デヴィッド・キャロル (米国・ボルティモア郡環境保護資源管理部長)

口頭発表

14:30-15:10 **Session2-1**

Chair Dr. WATANABE, Masataka

基調報告

2-143 Environmental Management of Marine Fish Culture in Hong Kong

Prof. LEE, Joseph HUN-WEI (CHINA)

Department of Civil Engineering, The University of Hong Kong

2-257 Seaweed Beds Management Using A Submerged Backho

Mr. SUZUKI, Hideo (JAPAN)

TOA Corporation Development of Engineering

15:30-17:00 **Session2-2**

Chair Prof. LEE. Joseph HUN-WEI

2-322 Evaluation of an Ecosystem Approach for the Management of the Commercial Brown Seaweed *Scenedesmus nodosum* in Eastern Canada"

Dr. UGARTE, Raul A. (CANADA)

Acadian Seaplants Limited

2-262 Contamination of *R. Nzoia* and *L. Victoria* by Aniline Pesticides and their Degradation Products: Lessons for the Environmental Management of Enclosed Coastal Seas

Mr. NZYUKO, Daniel M. (KENYA)

School of Environmental Studies, Moi University

2-201 Seasonal Variation of Self-Purification Activity in the Eutrophic Bottom Environments and Its Stimulation by Using an Optical Fiber

Prof. FUKAMI, Kimio (JAPAN))

LAQUES, KOCHI UNIVERSITY

2-152 Natural Water-purification System Observed in a Shallow Coastal Lagoon Matsukawa-ura, Japan"

Dr. KOHATA, Kunio (JAPAN)

National Institute for Environmental Studies

第3分科会 テーマ「沿岸域の環境修復・創造と都市再生に向けた取り組み」本館B1 布引・北野

コーディネーター エルダール・オーザン(トルコ・中東工科大学教授)

バイスコーディネーター 盛岡 通(大阪大学大学院工学研究科教授)

ラポーター 細川 恭史(国土交通省国土技術政策総合研究所沿岸海洋研究部長)

口頭発表

14:30-15:10 **Session3-1**

Chair Prof. ÖZHAN, Erdel

3-025 Managing Urban Ecosystems - Coastal Watershed Restorations, a Case Study in the Science of Restoration, Funding and Monitoring Natural Systems in New York Harbor

Mr. MATSIL, Marc A. (USA)

Natural Resources Group, City of New York-Parks Natural Resources

3-051 A Proposal for the Ecological Development of Osaka Bay Coastal Zone

Prof. MURATA, Buichiro (JAPAN)

NARA Prefectural University /NPO:Institute of Environmental Restoration Creation on Osaka Bay Coastal Zone

15:30-17:00 **Session3-2**

Chair Mr. MATSIL, Marc A.

- 3-238 An Integrated Environmental/Socio-Economic Approach & #8211; A Design to Master the Black Sea Ecosystem Health  
Prof. MONCHEVA, Snejana P. (BULGARIA)  
Institute of Oceanology, Bulgarian Academy of Sciences
- 3-081 Achieving a Paradigm Shift in Environmental and Living Resources Management in the Gulf of Guinea: the Large Marine Ecosystem Approach  
Dr. UKWE, Chika N. (NIGERIA)  
Department of Chemistry, Faculty of Science University of Lagos Akoka
- 3-099 Environment Improvement of Water Quality and Sediment Mikawa Bay by Employing Sand Dredged for Waterways to be Developed and Preserved  
Prof. IMAMURA, Hitoshi (JAPAN)  
Waterfront Vitalization and Environment Reserch Center
- 3-331 The Improvement of Local Communities' Livelihood Could Harmonize with Nature Reserve and Development Around Major Harbors in Vietnam  
Dr. VO TRI, Chung (VIETNAM)  
Forest Resources and Environment Center The Forest Inventory and Planning Institute

第4分科会 テーマ「沿岸域の環境保全と環境教育・実践活動」 南館B1 サファイア

コーディネーター ウェイン・ベル(米国・ワシントン大学環境社会センター所長)  
バイスコーディネーター グローリア・スナイヴェリー(カナダ・ヴィクトリア大学教授)  
ラポター 谷口 文章(甲南大学文学部教授・人間科学科長)  
口頭発表

14:30-15:10 **Keynote Session**

Chair Prof. TANIGUCHI, Fumiaki

- 4-392 Thinking Like an Ocean: Marine Education Princples that Ensure Coexistence between People and Nature  
Prof. SNIVELY, Gloria (CANADA)  
University of Victoria, British Colombia
- 4-393 Marine and Coastal Environmental Awareness Building Uiehim the Context of UNESCO's Activities in Asia and the Pacific  
Mr. KUIJPER, Maarten (THAILAND)  
Programme Specialist in Intergovernmental Oceanographic Commission for Western Pacific

15:30-17:00 **Session4-1**

Chair Mr. ASANO, Yoshiaki

- 4-131 Junior Shorekeepers: Canadian Youth Stewards of their Marine Environment  
Mr. BOIRE, Jason D. (CANADA)  
Fisheries and Oceans Canada

- 4-370 Coastal Seas as a Context for Science Teaching: A Lesson from the Chesapeake Bay  
Dr. BELL, Wayne H. (USA)  
Center for the Environment and Society Washington College
- 4-190 A Study of Environmental Education Program that Cultivate a Sense of Values Toward Sea by Observation of Sessile Invertebrates in the Port  
Mr. NAKAJIMA, Kiyonori (JAPAN)  
Port of Nagoya Public Aquarium
- 4-385 Thailand Approaches Coastal Management through Environmental Education  
Dr. SUDARA, Suraphol (THAILAND)  
Department of Marine Science, Faculty of Science, Chulalongkon University

第5分科会 テーマ「沿岸域環境管理における参加と連携」 南館B1 エメラルド

コーディネーター トーマス・ショーエンバウム (米国・ジョージア大学教授)

バイスコーディネーター 敷田 麻実 (金沢工業大学環境システム工学科・土木工学科助教授)

ラポーター イビカ・トランビック (クロアチア・国連環境計画優先行動計画 / 地域活動センター (PAP)所長)

口頭発表

14:30-15:10 **Keynote Session**

Chair Prof. TAKAYAMA, Susumu

- 5-028 Case of Recovery from the Illegal Industrial Wastes Dumping in Partnership with Inhabitant - the Experience of Teshima Island  
Mr. NAKACHI, Shigeharu (JAPAN)  
Environmental Monitoring Laboratory
- 5-361 Smart Growth: Interaction of Land Use, Climate Change and Coastal Protection  
Dr. NISHIDA, Jane T (USA)  
Maryland Department of the Environment

15:30-17:00 **Session5-1**

Chair Dr. SHIKIDA, Asami

- 5-127 Lessons Learned about Coastal Management from the Erosion of the Kujukuri Coast  
Mr. YOSHIDA, Tetsuro (JAPAN)  
The Nippon Foundation
- 4-056 Environmental Management of the Coastal Zone-Cambodia, Phase 2  
Mr. VANN, Monyneath (CAMBODIA)  
Ministry of Environmen
- 5-104 Effectiveness of Women Participation in Coastal Resource Management - Rekawa Lagoon. a Case from Sri Lanka  
Ms. WICKRAMANAYAKE, Mangala I. (SRILANKA)  
Coast Conservation Department
- 5-045 Environmental Impact Assessment for Blue Current Natural Gaz Pipeline  
Mr. BEBEK, Mustafa T. (TURKEY)  
Ministry of Environment

分科会「有明海セッション」 南館B1 トパーズ

昨年の暮れから今年の初めにかけて、海苔不作が大きな社会的、地域経済的問題として取り上げられ、有明海の環境と干拓事業との関わりなどに関する社会的関心が高まっています。しかし、実際には、この海の利用者、行政担当者、周辺地域の住民ですら、有明海が元来有する、地理的要素や生物的特性について深い認識をもっているとは言えないのではないのでしょうか。このセッションでは、有明海について、環境、生物、生産などの多面的側面から発表、討議を行い、その姿を見つめ直し、現在の問題点を明らかにしつつ、特徴的浅海干潟であるこの海について理解を深めることとします。

コーディネーター 瀬口 昌洋（佐賀大学農学部教授）

バイスコordinater 加藤 治（佐賀大学農学部教授）

ライター 田北 徹（長崎大学水産学部教授）

口頭発表

17:30-20:00 **Ariake Sea Session**

6-386 The Flow Features and the Forming Process of Tidal Flat in Ariake Sea

Prof. KATO, Osamu (JAPAN)

Faculty of Agriculture, Saga University

1-356 Monitoring by Ministry of Environment at Ariake Bay

Mr. UOYA, Toshinori

Ministry of Environment, Japan

1-327 Evaluation of Denitrification Capabilities in the Tidal Flats of the Ariake and Yatsushiro Inland Seas

Mr. IWAHASHI, Yoshinori

Graduate School of Science and Technology, Kumamoto University

6-389 Collapse of Dominant Bivalve Population on the Tidal Flats in Kumamoto Ariake Area and its Negative Influence on the Water Quality of Ariake

Prof. TSUTSUMI, Hiroaki (JAPAN)

Faculty of Environmental and Symbiotic Sciences, Prefectural University of Kumamoto

6-387 The Fauna in Ariake Sound and the Environmental Conditions which keep up its Uniqueness, with Special Reference to the Fish Fauna

Prof. TAKITA, Toru (JAPAN)

Director of the Marine Research Institute, Nagasaki University

6-388 Nori Culture in Ariake Bay

Prof. KITO, Hitoshi (JAPAN)

National Fisheries University

13:00 ~ 19:30 ポスターセッション (南館1F 大輪田B)  
(17:30 ~ 19:30 コアタイム)

注: 発表内容は20日、21日とも同じ

第1テーマ「沿岸域におけるモニタリングと環境情報の果たす役割」

- 1-007 Biological Aspects of an Intertidal Dugong Grass *Thalassia Hemprichii* (Ehrenb.) Aschers. in Port Dickson, Negeri Sembilan, Malaysia  
Mr. ABUHENA, Mustafa KAMAL (MALAYSIA)  
PhD Candidate (Aquatic Biology), Dept. of Biology, Universiti Putra Malaysia
- 1-019 Monitoring a Polluted Tropical Coastal Bay - the Case of Guanabara Bay, Brazil  
Dr. PARANHOS, Rodolfo (BRAZIL)  
Departamento de Biologia Marinha - Instituto de Biologia - Universidade do Brasil - UFRJ
- 1-035 Antifouling Herbicides in the Coastal Waters of Western Japan  
Dr. OKAMURA, Hideo (JAPAN)  
Research Institute for Bioresources, Okayama University
- 1-075 A Model of Fish Preference and Mortality under Hypoxic Water in the Coastal Environment  
Mr. KARIM, Md. REZAUL (BANGLADESH)  
Doctoral Student, Department of Civil Engineering, Yamaguchi University
- 1-088 Atmospheric Environmental Changes in Urban Area Due to Reclamation of Sea Surface and Economic Actions of Constructed Artificial Islands  
Dr. GOTOH, Takao (JAPAN)  
Faculty of Engineering, Kobe University
- 1-096 Organization of Monitoring and Observations Results in the Eastern Gulf of Finland  
Ms. BASOVA, Svetlana L. (RUSSIA)  
Nord-West Administration of Roshydromet
- 1-098 High Dominance of a Glass Fish (*Ambassis Kopsii*); A Unique Characteristic of an Impacted Tropical Coastal Strait- An Experience of Republic of Singapore  
Mr. HAJISAMAE, Sukree (SINGAPORE)  
Department of Biological Sciences, National University of Singapore
- 1-111 Preliminary Study on the Hydrochemistry of the Egyptian Coastal Water of Aqaba Gulf, as a Unique Ecosystem during Year 2000  
Dr. FAHMY, Mamdouh AMIN (EGYPT)  
National Institute of Oceanography and Fisheries
- 1-118 The Influence of Silicate on Exchange Rates between Sediment and Water in the Shallow-water Coastal Ecosystem  
Mr. SRITHONGUTHAI, Sarawut (JAPAN)  
Department of Life Sciences, Faculty of Agriculture, Kagawa University, Japan
- 1-145 Coastal Water Quality Monitoring of the Romanian Black Sea Sector  
Dr. BOLOGA, Alexandru S. (ROMANIA)  
National Institute for Marine Research and Development "Grigore Antipa"

- 1-168 Landscape Mapping of the Russian Black Sea Coast  
Prof. PETROOSHINA, Marina NIKOLAEVNA (RUSSIA)  
Department of Physical Geography & Landscapes, Geography Faculty, Moscow State University
- 1-169 Monitoring of Shallow Sea Environment Using Snapping Sheimps  
Mr. WATANABE, Moriyoshi (JAPAN)  
Department of Civil Engineering, Yamaguchi University
- 1-177 Primary Production Structure of Coastal Ecosystems Along the Coast of the Shikoku Island in Aki Nada, Japan  
Dr. OMORI, Koji (JAPAN)  
Center for Marine Environmental Studies, Ehime University
- 1-186 Species Composition and Seasonal Change of Phytoplankton in Yatsu Tidal Flat Locating in Tokyo Inner Bay  
Dr. MURAKAMI, Kazuhito (JAPAN)  
Chiba Institute of Technology, Dept. of Civil Engineering
- 1-191 Ecosystem Monitoring Investigation in Coastal Region of the National Park-Miyajima  
Mr. TOKUOKA, Makoto (JAPAN)  
MIKUNIYA Corporation
- 1-206 Ecological Characteristics of Green Tide Forming Algae (*Ulva* spp.) Appeared in Enclosed Tidal Flat Located in Tokyo Inner Bay  
Mr. ISHII, Yuichi (JAPAN)  
Chiba Institute of Technology Dept. of Civil Engineering
- 5-209 A Study on Overseas Litter on the Ishikawa Coast  
Mr. OHATA, Kenichi (JAPAN)  
Kanazawa Institute of Technology Graduate Student
- 1-220 Environmental Changes Along the Orissa Coast, Bay of Bengal: Its Monitoring and Management  
Dr. MOHANTY, Pratap KUMAR (INDIA)  
Department of Marine Sciences, Berhampur University, Berhampur, Orissa, India
- 1-222 Web Data Bank GIS for Ecology  
Mr. NAKAGAWA, Yoshie (JAPAN)  
Naturescape Co., Ltd., President
- 1-231 Distribution Changes of Benthic Animals Under the Influence of Silt Fence Spreading around Reclaimed Area in Hakata Bay, Japan  
Mr. FUJII, Akihiko (JAPAN)  
Dept. of Environmental Engineering, Kyushu Environmental Evaluation Association
- 1-260 Remote Sensing and Sharing of Coastal Environmental Information  
Mr. HIRONO, Kiichi (JAPAN)  
ASIA AIR SURVEY CO., LTD.
- 1-269 Characterization and Long-term Monitoring of a Coastal Environment by Assessment of the Macro-algal Flora  
Prof. KAWAI, Hiroshi (JAPAN)  
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- 1-295 Environmental Investigation in Yura Area of Awaji Island  
Prof. HOSODA, Ryusuke (JAPAN)  
Osaka Prefecture University
- 1-297 Nutritional Status and Primary Production in the Black Sea: Emphasis on the Changes in the Last Decades  
Dr. Yesim COBAN YILDIZ (TURKEY)  
Middle East Technical University, Institute of Marine Sciences
- 1-304 Distribution of Organic Matter in a Tidal Estuary of the Seto Inland Sea, Japan, and its Relationship with the Macrobenthic Communities  
Prof. MONTANI, Shigeru (JAPAN)  
Kagawa University, Department of Life Sciences
- 1-319 The Status of Ecological Environment and Protect Strategy in Sanya Bay  
Prof. HUANG, Liangmin (CHINA)  
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- 1-321 Exergy an Indicator for Coastal Environmental Management the Case of Dar es Salaam Tanzania (East Africa)  
Prof. MELCHIOR, Rwegasira (TANZANIA)  
University College of Lands and Architectural Studies (UCLAS) Environmental Engineering Department
- 1-344 Eutrophication Problem in the Western Harbour of Alexandria, Egypt  
Prof. DORGHAM, Mohamed MOUSSA (EGYPT)  
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- 1-345 Moroccan Water Masses Along the Coastal Upwelling  
Mr. MAKAOUI, Ahmed (MOROCCO)  
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- 1-348 An Eco-hydrological Approach to Delineation Guidelines for Groundwater Remediation Measures in a Coastal Aquifer  
Dr. MELLOUL, Abraham J. (ISRAEL)  
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- 1-350 The Dinoflagellate in Pari Islands, Thousand Islands, North of Jakarta.  
Mr. THOHA, Hikmah (INDONESIA)  
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- 1-366 In Situ Photosynthetic Performance of Ecklonia Cava Forming Macroalgal Beds  
Dr. MARIA, Altamirano (JAPAN)  
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第2テーマ「陸域と海域の相互作用と理解」

- 2-004 For the Recovery of Fish Stocks in the Seto Inland Sea  
Prof. NAGAI, Tatsuki (JAPAN)  
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Fisheries Research Agency
- 2-008 Reed Plains as Geological Environment and an Indicator of Water Pollution of the Baltic Sea  
Dr. SAKSON, Maire (ESTONIA)  
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- 2-015 Study of Stabilization of Sulfide and Determination of Sulfide in Estuaries Along Osaka Bay  
Dr. AOKI, Toyoaki (JAPAN)  
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- 2-037 The Impact of Mining Marine Sand on the Sand Lance Population in the Seto Inland Sea - A Review  
Prof. NAGAI, Tatsuki (JAPAN)  
National Research Institute of Fisheries and Environment of Inland Sea,  
Fisheries Research Agency
- 2-050 Impact of Treated Industrial Effluents on Yanbu (Red Sea) Coral Reef and the Coral Recovery in Port Barrier Reef.  
Dr. PAIMPILLIL, Joseph SEBASTIAN (INDIA)  
Environmental Solutions
- 2-062 Characteristics and Sources of Eutrophication in the Pearl River Estuary  
Prof. HUANG, Xiaoping (CHINA)  
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- 2-069 Coupling Science and Management for the Sustainability of the Coastal and Marine Environment in Nigeria  
Dr. UKWE, Chika N. (NIGERIA)  
DEPARTMENT OF CHEMISTRY FACULTY OF SCIENCE, UNIVERSITY OF LAGOS
- 2-085 The Nationwide Investigation of Endocrine Disruptors in Sediment on Harbours  
Mr. TANAKA, Yusaku (JAPAN)  
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- 2-095 Impact of Heavy Metal Loading on Periphyton Productivity in a Heavily Dredged Estuary in Singapore.  
Mr. NAYAR, Sasi (SINGAPORE)  
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- 2-100 Aquaculture Activity Management in a Coastal Lagoon Ecosystem of Central Vietnam  
Dr. TON, Phap T. (VIETNAM)  
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- 2-122 Concentration of Endocrine Disruptors in Core Sediments from Harimanada which is Located in Seto Inland Sea, Japan  
Mr. NAGAMITSU, Hiroaki (JAPAN)  
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- 2-124 Influence of St. Petersburg Flood Protective Construction on the Eastern Gulf of Finland  
Dr. KRYLENKOVA, Nataliya L'VOVNA (RUSSIA)  
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- 2-129 Direct Loadings of Nutrients into Inland Coastal Area by Atmospheric Deposition  
Mr. UMEMOTO, Satoshi (JAPAN)  
The Hyogo Prefectural Institute of Environmental Science
- 2-141 The Temporal Variations of Sedimentary Pheopigments in the Tidal Flat(the Seto Inland Sea); the Influence of Physical Parameters on Growth Rates Microphytobenthos  
Ms. SAITOH, Nodoka (JAPAN)  
Kagawa University, Faculty of Agriculture, Department of Life Science
- 2-142 Dissolved Organic Phosphorus as a Possible Cause of Recent Harmful Dinoflagellate Blooms in Hiroshima Bay  
Mr. OH, Seok Jin (JAPAN)  
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- 2-146 The Amount of Pollution Loads and Water Quality of the Seto Inland Sea  
Mr. YANO, Takashi (JAPAN)  
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- 2-165 Production Conditions in Livestock Farms and Consequences on Environmental and Water Quality  
Ms. CAMPOS, Monica P. (SWEDEN)  
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- 2-172 Litter Accumulation on Seabed of Tokyo Bay and Its Removal by Small Trawl Fishing  
Mr. KURIYAMA, Yuji (JAPAN)  
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- 2-183 Livestock Wastes as a Source of Estrogens and their Effects on Wildlife of Manko Tidal Flat, Okinawa  
Dr. TASHIRO, Yutaka (JAPAN)  
Okinawa Prefecture Public Health Association
- 1-185 Evaluation of Sediment Quality from Viewpoint of Benthic Metabolism  
Prof. MATSUDA, Osamu (JAPAN)  
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- 2-187 International Sarvey on Distribution of Submerged and Stranded Delris on Beaches along the Sea of Japan  
Prof. KUSUI, Takashi (JAPAN)  
College of Technology, Toyama Prefectural University
- 2-195 Sedimentary Nutrients in the Eastern Gulf of Finland, Baltic Sea:Distribution and Exchange Across the Sediemnt-Water Interface  
Dr. IGNATYEVA, Natalia V. (RUSSIA)  
Institute of Limnology of the Russian Academy of Sciences
- 2-210 Dissolved Organic Matter is the Useful Indicator of Organic Contamination Mechanism in the Gokasyo Bay  
Mr. HATANO, Yoshiyuki (JAPAN)  
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- 2-212 The Bioconcentration of Polychlorinated Dibenzo-p-dioxins, Dibenzofurans, Non-Ortho Polychlorinated Biphenyls and Mono-ortho Polychlorinated Biphenyls in Japanese Flounder  
Mr. OKUMURA, Yutaka (JAPAN)  
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- 2-213 Effect Of 17alpha-Ethynylestradiol And Norethindrone On Swimming And Reproduction of Cladoceran Daphnia Magna STRAUS  
Mr. GOTO, Takashi (JAPAN)  
Graduate School of Bioresource Sciences, Nihon University
- 2-215 Reduction Effects of Turbidity and Nutrients by Ponds in Agricultural Region  
Mr. KUBOTA, Tomijiro (JAPAN)  
National Institute for Rural Engineering
- 2-216 Numerical Analysis and Characteristics of the Ise Bay  
Prof. TAKEMOTO, Yukimasa (JAPAN)  
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- 2-235 Source and Fate of PCBs in the Sea Sediment.  
Mr. NAKANO, Takeshi (JAPAN)  
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- 2-236 Strategic Approach to Restore the Water Quality of Three Brackish Lagoons of East Coast in Korea  
Prof. HA, Sung RYONG (KOREA)  
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- 2-250 Response of the Sea Water Quality to Significant Reduction of Pollutant Load: Long Term Monitoring in the Mid-Seto Inland Sea  
Prof. FUJIWARA, Tateki (JAPAN)  
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- 2-255 The Concentration Levels Of Heavy Metals In Seawater Of Hiroshima Bay In The Seto Inland Sea, Japan  
Dr. HIRATA, Shizuko (JAPAN)  
National Institute of Advanced Industrial Science and Technology (AIST) Chugoku
- 2-256 Total Dissolved and Particulate Lead in the Western Harbor of Alexandria, a Mediterranean Basin Under Stress  
Prof. SAAD , Massoud A.H. (EGYPT)  
Alexandria University
- 2-258 Phosphorous Removal for Mid-Strength Using Fluidized-Bed Map Reactor  
Dr. HARADA, Hiroyuki (JAPAN)  
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- 2-259 Society Structure and Flux of Phosphorus:The Adriatic Case  
Dr. VUKADIN, Ilija (CROATIA)  
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- 2-267 The Environmental Problem is Near to Us but is Difficult to Solve  
Mr. SAKURAI, Kiyoharu (JAPAN)  
Plan Do, Co., LTD
- 2-275 Environmental Area Study in Area around Maizuru Bay  
Dr. MIYAZAKI, Shoji (JAPAN)  
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- 2-277 Evaluation of Water Quality Status In Coastal Aquifers - A Case Study Along The East Coast of Andhra Pradesh, India Using Insitu and Arc/Info GIS Techniques  
Mr. CHETLAPALLI, Mohana VAMSHI (INDIA)  
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- 2-278 Is the Condition of Water Environment of Tokyo Bay Improved-Consideration on the Occurrence of Red Tide, Blue Tide (Aoshio) and the Change with in the Water Quality  
Ms. OGURA, Hisako (JAPAN)  
Research Planning and Information Section, Chiba Prefectural Environmental Research Center
- 2-282 Distribution of PCB and Monylphenol in Mussel around Harimanada and Osaka Bay  
Mr. AMANO, Mikita (JAPAN)  
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- 2-284 Changes in Transparency and Dissolved Oxygen during Recent Decade in the Sea of Harima, Japan  
Dr. KOMAI, Yukio (JAPAN)  
HYOGO PREFECTURAL INSTITUTE OF ENVIRONMENTAL SCIENCE
- 2-290 Impact of Coastal Municipalities on the Quality of Marine Environment in Coastal Areas of the Black Sea - Yalta Case Study  
Dr. KUZNYETSOV , Volodymyr V. (UKRAINE)  
Head, Department of International Research Projects MINISTRY OF ECOLOGY AND NATURAL RESOURCES OF UKRAINE
- 2-291 Isolation and Identification of Algicide in a Jellyfish Aurelia aurita  
Prof. UCHIDA, Naoyuki (JAPAN)  
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- 2-300 Analysis for the Changes of Anionic Surfactants Concentrations in Rivers of Hyogo Prefecture during Past 25 Years and the Effect of Sewerage Development  
Mr. KOBUKE, Yoshinari (JAPAN)  
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- 2-303 Marine Pollution along the Dar Es Salaam City Coast: Case Study, Central Business Area  
Prof. MATO, Rubhera R.A.M (TANZANIA)  
Department of Environmental Engineering, University College of Lands & Architectural Studies
- 2-310 Relationship between Water Quality and Nutrient Loads - Time Series Analysis in Osaka Bay, Japan  
Prof. NAKATSUJI, Keiji (JAPAN)  
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- 2-312 The Influence of Nutrient Availability on Phytoplankton Community Structure of the Eastern Part of the Baltic Sea  
Dr. BALODE, Maija (LATVIA)  
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- 2-313 Polycyclic Aromatic Hydrocarbons (PAHs) and Mutagenicity of First Flush in Urban Runoff  
Mr. TAMAMOTO, Hiroyuki (JAPAN)  
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- 2-338 Measures on Reduction of Pollutant Load from Sewerage System in Kobe  
Mr. YANO, Takashi (JAPAN)  
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- 2-358 Effects of Tributyltin on Marine Organisms and its Ecological Risk Assessment in the Marine Environment of Korea  
Mr. SHIM, Won-Joon (KOREA)  
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- 2-365 Coastal Environmental Pollution Caused By Aquaculture  
Mr. MATSUMOTO, Motosuke (JAPAN)  
The Organization to Prevent from Using Formalin at Fish-Farms in Amakusa
- 2-371 Elevated Mercury Concentration in Cobia (*Rachycentron Canadus*) of the Gulf of Thailand  
Prof. MENASVETA, Piamsak (THAILAND)  
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- 2-383 Sustainability of Water Consumption  
Dr. BARTOSZCZUK, Pawel (JAPAN)  
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- 2-390 The 99 % Treatment Ratios for Domestic Wastewater Project in Hyogo Prefecture, Japan  
Mr. SONODA, Takeyuki (JAPAN)  
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第3テーマ「沿岸域の環境修復・創造と都市再生に向けた取り組み」

- 3-001 Approaches to Environmental Restoration of a Polluted Harbor having Submerged Ancient Alexandria's Royal Buildings and Artifacts  
Prof. EL-RAYIS, Osman A. (EGYPT)  
Oceanography Dept., Alexandria University
- 3-040 Denaturing of the Atlantic Coastal Environment of Nigeria : the Case of Lagos Area, Western Nigeria  
Dr. AKUDINOBI, Bernard E.B. (NIGERIA)  
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- 3-044 Geoenvironmental Analysis of the Littoral of Portixeddu (Fluminimaggiore-Buggerru, Sw-Sardinia)  
Prof. DI GREGORIO, Felice (ITALY)  
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- 3-059 Succession Process in the Structure for the Environmental Restoration Applied to Enclosed Sse Areas.  
Mr. IWAMURA, Shunpei (JAPAN)  
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- 3-077 The *Zostera Marina* Bed Creation Method by the Sowing Sheet  
Mr. YOSHIDA, Toshiharu (JAPAN)  
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- 3-087 Construction of Maishima Sludge Center as a Strategy for Upgrading Osaka City's Sewerage System  
Mr. KAMADA, Hirosuke (JAPAN)  
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- 3-089 Feasibility of Artificial Waterways to Preserve Hydraulic Environment of Tidal Inlets  
Prof. KONDO, Hideo (JAPAN)  
Coastsphere Systems Institute Inc.
- 3-090 The Eelgrass (*Zostera Marina*) Bed Creation in Yokohama Bay  
Mr. AIHARA, Masashi (JAPAN)  
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- 3-091 Examination of System for Improving the Sea Water Environment, Combining a Constructed Tidal Flat and Seaweed Bed  
Dr. KIMURA, Kenshi (JAPAN)  
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- 3-094 Development of an Environment-oriented "Eco-Wharf"  
Mr. OGUNI, Yoshiyuki (JAPAN)  
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- 3-105 Develop a New Type of Concrete for Improving Creatures Living Environment  
Dr. SAKURAI, Nobuo (JAPAN)  
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- 3-115 Seto Inland Sea and Coastal Places of Scenic Beauty for New World Heritage  
Mr. TAKINO, Hideo (JAPAN)  
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- 3-116 Ability of Artificial Sea Grass to Attract Marine Life  
Prof. YAMAOKA, Kosaku (JAPAN)  
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- 3-117 Effects of Non-Aqueous Phase Liquid (NAPL) on Biodegradation of PAHs in Spilled Oil on Tidal Flat  
Mr. KOSE, Tomohiro (JAPAN)  
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- 3-123 Monitoring Impact of Oil Biostimulation Treatment on Indigenous Bacterial Communities by Dgge and Clone Library Analyses  
Mr. OGINO, Akifumi (JAPAN)  
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- 3-137 Toward the Restoration of Tidal Flat  
Mr. KAKUNO, Kohji (JAPAN)  
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- 3-139 Study on Fundamental Properties and Applicability to Marine Structures of the Blocks Made of Steel Slag  
Mr. MATSUNAGA, Hisahiro (JAPAN)  
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- 3-144 Cost-Benefit Analysis of the Project for Sewerage Construction at the Ise-Bay Area  
Mr. KASHIHARA, Kenji (JAPAN)  
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- 3-149 Effects of Restored Tidal Flats on the Water Quality and Environmental Conditions of a Habitat in an Enclosed Coastal Sea  
Mr. SHIMADA, Yoshihiko (JAPAN)  
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- 3-161 A Specific Diatom Indicative of the Degradation of Coastal Ecotones  
Dr. SATO, Hiroshi (JAPAN)  
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- 3-170 Evaluation of Seawater Quality in Fuel Bioremediation Field Experiment by Agp Test  
Mr. MIYAZAKI, Hajime (JAPAN)  
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- 3-182 The Global Ecological Significance of Coastal Cities  
Prof. TAYLOR, Dennis L. (USA)  
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- 3-192 Change of a Living Thing in the Akashi Ookura Seashore  
Mr. ITOU, Akifumi (JAPAN)  
TOYOSUIKEN CO.,Ltd
- 3-197 Restroration Technology of Seagrass Beds  
Mr. NAKASE, Kota (JAPAN)  
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- 3-198 Effects of Deposit Feeder Stichopus Japonicus on Algal Flourish and Organic Matter Contents on Bottom of Enclosed Sea  
Mr. KITANO, Michio (JAPAN)  
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- 3-214 Economic Valuation of Seto Inland Sea by Using an Internet CV Survey  
Mr. TSUGE, Takahiro (JAPAN)  
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- 3-237 Growth Characteristics of Zostera Japonica, a Seagrass Growing in Brackish Lake Nakaumi, Shimane, Japan  
Dr. KUNII, Hidenobu (JAPAN)  
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- 3-246 Improvement of Semi-Enclosed Water Environment by Means of Artificially Promotion of Water Circulation and Sand Capping on the Seabed  
Mr. MIYAOKA, Shuji (JAPAN)  
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- 3-247 Laboratory-Scale Remediation Experiment of Bottom Sediment by Irradiation of the Light  
Mr. MASUZAWA, Hikaru (JAPAN)  
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- 3-251 The Master Plan for the Water Environment and Advanced Wastewater Treatment in Yokohama  
Mr. KIRIHARA, Takashi (JAPAN)  
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- 3-265 Improvement of Waterfront Environments Using the Permeable Breakwater with Wave Absorbing Pipes  
Mr. TOGAWA, Susumu (JAPAN)  
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- 3-273 Economic Evaluation Method of Environmental Restoration in the Seto Inland Sea  
Mr. YAMAMOTO, Hironori (JAPAN)  
FUKKEN CO., LTD
- 3-283 City Planning Along The Environment of Enclosed Coastal Seas  
Ms. KUMAZAWA, Shunko (JAPAN)  
Journal of Japan Society on Water Environment
- 3-317 Coast Protection Environmentally at Toban Coast  
Mr. NAKAMURA, Noriyuki (JAPAN)  
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- 3-320 Cost-benefit Analysis on the Fixation of Carbon in Artificial Lagoon under Dominance of *Corbicula Japonica*  
Mr. FUJIOKA, Katsuki (JAPAN)  
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- 3-337 Purification of Marine Water Environment in the Outside Waters by an Effect of the  
Mr. AKAI, Kazuaki (JAPAN)  
UTSURO STUDY GROUP
- 3-339 Utilization of Reclaimed Water in Kobe  
Mr. TOUSHIN, Akihiko (JAPAN)  
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- 3-375 Study on Marine Forestation Using Charcoal Plates  
Mr. MATSUMURA, Jun (JAPAN)  
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- 3-376 Practical Study on Coastal Zone Development Using Charcoal Plates  
Mr. OHKOUCHI, Masayoshi (JAPAN)  
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第4テーマ「沿岸域の環境保全と環境教育・実践活動」

- 4-023 Marine Environmental Education for the Fishermen Students for Biodiversity Conservation in Gulf of Mannar, India  
Prof. XAVIER, Sesurajam M. (INDIA)  
Government Girls Higher Secondary School
- 4-054 Program of Ecological Tourism Development in the Coastal Zone of the Russian Far East and Environmental Education  
Prof. SOUVOROV, Alexander V. (RUSSIA)  
Moscow State University, Ecological Center Fenix
- 4-084 Protect the Environment of the Seto Inland Sea  
Mr. GOTOU, Yasuharu (JAPAN)  
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- 4-103 Unskilled Diving as a Cause of Coral Deterioration :a Case Study of Koh Tao Island, Southern Thailand  
Mr. POOTHONG, Sukhum (THAILAND)  
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- 4-132 Educational Activities for Improving the Water Quality of Tokyo Bay  
Mr. SHIIHASHI, Fumio (JAPAN)  
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- 4-175 The Mitigation of the Influence of Sewage Treated Water to Coastal Area by Near-Nature Stabilization Pond and its Utilization as a Place of Environmental Education  
Mr. KUBO, Hiroshi (JAPAN)  
AICHI Pref. HANDA Public Works Office
- 4-189 Illegal Garbage in the Protected Water Source Basin, and the Examination of Polluted Water to Verify Its Safety by Use of Aquatic Creatures  
Mr. KAGO, Shoji (JAPAN)  
Nitta High School
- 4-200 Practical Example of an Outdoor Education Project  
Prof. KUGIMIYA, Kozo (JAPAN)  
Training at Kitsuki Nagisa, kitsukiCity
- 4-221 Present Condition of Marine Environmental Education in Tokyo Bay  
Mr. HIRATA, Satoshi (JAPAN)  
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- 4-271 International Environmental Education and Research Programs are Possible Through the Virtue Project  
Ms. CHAMBERS, Patricia I. (USA)  
Stephen Decatur Middle School
- 4-276 Environmental Education and Ecotourism to Preserve the Seto Inland Sea Area  
Mr. SUMINO, Akira (JAPAN)  
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- 4-280 Conservation of Biodiversity of the Coastal Resources of Sundarbans, Northeast India : An Integrated Approach Through Environmental Education  
Dr. SARKAR, Santosh K. (INDIA)  
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- 3-281 Unique Strategies Relating to the History and Heritage of Pirates in the Seto Inland Sea  
Mr. SHIRAISHI, Michihiro (JAPAN)  
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- 4-306 Activities of Wakayama Research Organization of Marine Environment  
Mr. NAKAYAMA, Jiro (JAPAN)  
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- 4-336 Curriculum Development on Ocean Studies at School Level  
Dr. SURESH, Madha V. (INDIA)  
University of Madras

第5テーマ「沿岸域環境管理における参加と連携」

- 5-014 Coastal Management: Case Study Mud-Crab, Scylla Serrata and Mangrove Resources Management in Kotania Bay, Seram Barat, Central Maluku - Indonesia  
Prof. SUPRIYADI, Indarto HAPPY (INDONESIA)  
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- 5-022 Biocentration of Heavy Metals in Seaweeds of Thoothukkudi Bay (S.India) and Pollution Abatement Measures  
Prof. RAMASAMY, Santhanam (INDIA)  
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- 5-046 Sustainable Development in the Seto Inland Sea  
Mr. KAYA, Hideki (JAPAN)  
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- 5-047 A Holistic Approach for Sustainable Management of Chilka Lake, East Coast of India  
Dr. MISHRA, Pravakar (JAPAN)  
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- 5-097 Consensus Building Among Stakeholders - Participatory Planning of Coastal Zone in Komatsujima  
Dr. ISHIDA, Kenichi (JAPAN)  
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- 5-151 Start of a New Coastal Management System Aiming at Beautiful, Safe and Lively Coasts for the Next Generations  
Mr. KISHIDA, Hiroyuki (JAPAN)  
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- 5-205 A Suggestion for "Watershed Approach" to an Effective Water Management System: Building up a "Watershed Union"  
Ms. YAMADA, Mayumi (JAPAN)  
JIA-QA Center Assessment Dept. Senior Researcher (Waseda University Graduate Student)
- 5-208 A Study on the Constitution of Efficiently Correspondence System for the Coastal Litters Problem in the Japan  
Dr. TAKENOUCI, Naruhito (JAPAN)  
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- 5-233 Coral Reef Management Strategy Policies in Thailand: Lessons Learnt for a Decade  
Dr. YEEMIN, Thamasak (THAILAND)  
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- 5-245 Proposed Frameworks and Typology of Coastal  
Dr. SORENSEN, Jens C. (USA)  
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- 5-249 Effects of Isahaya Reclamation Work on the Sediment Eutrophication in Isahaya Bay  
Dr. HODOKI, Yoshikuni (JAPAN)  
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- 5-279 An Evolutionary Perspective on the Development of Coastal Zone Management: a Case Study of Recreational Fishing in Japan  
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- 5-287 NetWwater - A Local Level Initiative for Promoting Gender and Good Governance  
Ms. ATHUKORALA, Kusum (SRI LANKA)  
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- 5-318 The Experimental Trial for Making Citizens Orientated Environmental Indicators for the Ise Bay Area. (Holding the Ise Bay Area Environmental Policy Assessment Meeting)  
Prof. TAKAYAMA, Susumu (JAPAN)  
Mie University, Faculty of Bioresources
- 5-330 Deterioration of Coastal Environment Due to Lack of Overall Planning -the Example of Moriye Bay in Oita Prefecture  
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- 5-334 Manila Bay in the 3rd Millennium - Manila Bay, 10 Years After the 1st Emecs  
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- 5-343 Tokyo Bay: Regain more Blue Sea with Everybody's Effort  
Mr. URUSIBATA, Minoru (JAPAN)  
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- 5-351 Citizens' 'Timed Assessment of the Isahaya Recramation Project  
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WWF JAPAN
- 5-354 Coastal Seas and Olympic Values  
Dr. ARVANITIS, Agni V. (GREECE)  
Biopolitics International Organisation
- 3-359 Environmental Restoration and Creation in the East African Coastal Areas  
Mr. MULAAMA-D'JIVETTI, Edward M. (KENYA)  
Director, Environmental Network of Africa [ENVIRONET]
- 5-368 Seto Coastal Environment Advancement Vision of Hyogo  
Prof. UESAKA, Masaaki (JAPAN)  
Water Quality Division, Environment Bureau, Lifestyle and Social Service,  
Hyogo Prefectural Government
- 5-377 A Comparative Study Of Coastal Seas Governance Involving Chesapeake Bay and a Watershed in Mexico  
Prof. STEVENSON, J. Court (USA)  
Horn Point Laboratory
- 5-381 Integrated Approach to Management of the Seto Inland Sea and Planning Guidelines  
Mr. OSUMI, Yasuhiko (JAPAN)  
The Governors and Mayors' Conference on the Environmental Protection of the Seto Inland Sea
- 5-391 Ise Bay Development and Conservation Conference  
Mr IIZUKA, Atsushi (JAPAN)  
Ise Bay Development and Conservation Conference