



## ORAL PRESENTATIONS

Abstracts Posted at [www.searanching.org](http://www.searanching.org)

### DAY 1: Monday, September 18, 2006

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| Introduction   | Chairs: Steering Committee and International Scientific Committee   |
| Keynote address No. 1: <i>Understanding and managing fisheries enhancement systems</i>                         | Kai Lorenzen  |
| Theme 1 - Restocking and stock enhancement systems and their role in fisheries management                      | Chairs: Ken Leber, Josianne Støttrup  |
| Mini-keynote: Scallop stock enhancement in New Zealand: lessons from applying an integrated approach           | Mike Arbuckle   |
| Enhancing the recovery of depleted <i>Tripneustes gratilla</i> stocks through sea ranching and restocking      | Marie Antonette Juinio-Meñez, H. Bangi, D Pastor  |
| 30 years of sea ranching manila clams <i>Tapes philipinarum</i> : successful techniques and lessons learned    | Peter Becker, C. Barringer  |
| Marine stock enhancement in Florida: a multidisciplinary, stakeholder-supported, accountability-based approach | Michael Tringali, K. Leber, W. Halstead, R. McMichael, J. O'Hop, B. Winner, R. Cody, C. Young, C. Neidig, H. Wolfe, A. Forstchen, L. Barbieri |
| Mudcrabs and mangroves; an example of integrated approaches to stock enhancement                               | Lewis Le Vay, M. Walton, J. Leбата, J. Primavera, E. Quinitio, F. Parado-Esteva, E. Rodriguez, V. Noc Ut, T. Nghia, P. Sorgeloos M. Wille     |
| Restocking the eastern Baltic cod: insight or distant?   | Josianne Støttrup, J. Overton, H. Paulsen, J. Tomkiewicz, C. Møllmann, P. Pedersen, P. Lauesen  |
| Improving yield and market traits of southern rock lobsters through translocation                              | Arani Chandrapavan, C. Gardner  |

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| <b>Theme 2 - When can hatchery releases add value to other forms of management?</b>                                   | <b>Chairs: Kai Lorenzen, Caleb Gardner</b>                    |
| <b>Mini-keynote:</b> Metapopulation source-sink dynamics and stock enhancement of marine species                      | <b>Rom Lipcius, S. Schreiber, H. Wang, J. Shen, M. Sisson</b> |
| Uses and limitations of contemporary genetic analyses in delineating biological populations for stock enhancement     | <b>Michael Tringali</b>                                       |
| Complete optimization: integrating management with hatchery releases  | <b>Robert Aguilar, A. Hines, M. Kramer, M. Goodison</b>       |
| Have reseedings contributed to the stock enhancement of abalone in Japan?   | <b>Tomohiko Kawamura, T. Horii, H. Takami</b>                 |
| Variable long-term performance of released sandfish   | <b>Steven Purcell, M. Simutoga</b>                            |
| Simultaneous estimation of mixing proportions of released populations and genetic drift based on individual genotypes | <b>Toshihide Kitakado, S. Kitada, H. Kishino</b>              |
| Manipulations of stocking magnitude: addressing density-dependence in juvenile populations of a marine carnivore      | <b>Nathan Brennan, K. Leber, C. Walters</b>                   |
| Fisheries management in troubled waters: the need for scientifically informed decision making.                        | <b>Willis McConnaha, L. Mobrand, J. Waldo</b>                 |

## DAY 2: Tuesday, September 19, 2006

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| <b>Theme 3 – Institutional and socio-economic issues</b>   | <b>Chairs: PingSun Leung, Jurgene Primavera</b>   |
| <b>Mini-keynote 1:</b> On the economics of ocean ranching and stock enhancement                            | <b>Ragnar Arnason</b>   |
| <b>Mini-keynote 2:</b> Legal framework of sea ranching: The Norwegian experience and management strategy.  | <b>Britt Leikvoll</b>   |
| Property rights in fish in sea ranching and enhancement – real or de facto                                 | <b>Bernard Walrut</b>   |
| Stock enhancement and fisheries management of the Japanese flounder in Fukushima, Japan                    | <b>Takeshi Tomiyama, M. Watanabe, T. Fujita</b>   |
| Geoduck enhancement in British Columbia: a case study of incentives for enhancement                        | <b>Michelle James</b>   |
| The economic feasibility of increasing rock lobster yield by translocation in Tasmania, Australia          | <b>Caleb Gardner, I. van Putten</b>   |
| Stocking and aquatic ranching in South America: lessons from stocking non-indigenous species for fisheries | <b>Theresa Bert, H. Ortega, H. López-Rojas, A. Bonilla-Rivero, C. Alves, P. Vigliano, M. Alonso, M. Pascual, J. Ciancio</b> |

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| An economic analysis of stock enhancement of Persian sturgeon in Iran  | Hassan Salehi  |
| <b>Theme 4 – Release strategies</b>  | <b>Chairs: Dave Eggleston, Reiji Masuda</b>  |
| <b>Mini-keynote:</b> Release strategies for estuarine species with complex migratory life cycles: stock enhancement of Chesapeake blue crabs                           | <b>Anson Hines, E. Johnson, A.Young-Williams, R. Aguilar, M. Kramer, M. Goodison, O. Zmora, Y. Zohar</b> |
| Optimizing enhancement strategies: predicting growth and survival of hatchery-reared blue crabs under varying release scenarios  | <b>Eric Johnson, A. Hines, M. Kramer, A. Young-Williams</b>  |
| Optimal release site, season and size of spotted halibut determined by cage experiments and landing  | <b>Toshihiro Wada, T. Yamada, M. Aritaki, H. Sudo, Y. Yamashita, M. Tanaka</b>                           |
| Evaluating the effect of size at release on recapture rates of Japanese spanish mackerel in the eastern Seto Inland Sea, Japan   | <b>Yasuhiro Obata, H. Yamazaki, A. Iwamoto, S. Kitada</b>  |
| Optimal location for cultured and released juveniles of ocellate puffer <i>Takifugu rubripes</i> identified by tag and release experiments using fluorescent elastomer | <b>Hiroshi Nakajima, M. Kai, K. Koizumi, T. Tanaka, M. Machida</b>                                       |
| Differences in predation between wild and hatchery-reared juveniles of tiger puffer in a salt pond mesocosm  | <b>Daisuke Shimizu, K. Sakiyama, Y. Sakakura, T. Takatani, Y. Takahashi</b>                              |
| Stock enhancement of a marginal abalone fishery in trouble - the challenge continues   | <b>Mike Heasman</b>  |
| Behavioral patterns of hatchery-produced abalone <i>Haliotis asinina</i> for stock enhancement: predator avoidance and search for food and shelter                     | <b>Shelah Mae A. Buen-Ursua, W. Gallardo, A. del Norte-Campos</b>  |
| Application of the larval phase in marine invertebrate population restoration  | <b>William Arnold, J. Leverone, S.Geiger, J. Greenawalt</b>  |
| A generalized predator-impact model to optimize stocking of estuarine finfish  | <b>Matthew Taylor, I. Suthers</b>  |

### DAY 3: Wednesday, September 20, 2006

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| <b>Keynote Address No. 2: <i>The Chesapeake Bay blue crab (<i>Callinectes sapidus</i>): a multidisciplinary approach to responsible stock enhancement</i></b> | <b>Yonathan Zohar</b>                       |
| <b>Theme 5 – Interactions between wild and released stocks</b>  | <b>Chairs: Devin Bartley, Mike Tringali</b> |

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| <b>Mini-keynote:</b> Genetic effects of hatchery releases on marine finfish populations: case studies from Japan  | <b>Shuichi Kitada</b>   |
| Loss of family variation in Japanese flounder during seed production and shortly after release  | <b>O. Tominaga, J. Hasegawa, T. Tsusaki, S. Shiozawa, T. Seikai, Y. Tanaka, T. Fujii</b>                    |
| Genetic risk of stocking on fishes having environmentally influenced sex-determination  | <b>Minoru Kanaiwa, Y. Harada</b>  |
| Experimental study on broodstock management of barfin flounder under the concept of minimum kinship selection   | <b>Shigenori Suzuki, S. Sekiya, T. Sugaya, M. Del Mar Ortega-Villaizan Romo, T. Matsubara, N. Taniguchi</b> |
| Genetic diversity, migration, and reproduction of released hatchery-reared Japanese flounder <i>Paralichthys olivaceus</i>                              | <b>Tetsuo Fujii, T. Ito, M. Nishida</b>   |
| Genetic considerations during the experimental and expanded phases of blue crab stock enhancement in Chesapeake Bay                                     | <b>Allen Place, X. Feng, J. Hill</b>  |
| Monitoring of the stock enhancement program for black sea bream ( <i>Acanthopagrus schlegelii</i> ) in Hiroshima Bay, Japan                             | <b>Enrique Blanco Gonzalez, D. Jeong, T. Umino, K. Nagasawa</b>   |
| Ecological impact of sea-ranching lobster: current research and future perspectives   | <b>Ann-L. Agnalt, K. Jørstad, E. Farestveit</b>   |
| Testing differences between wild and hatchery-reared blue crabs: minimizing potential negative interactions at release                                  | <b>Alicia Young, J. Davis, E. Johnson, A. Hines</b>   |
| The concept of carrying capacity in red drum stock enhancement  | <b>Michael Denson, W. Jenkins, T. Smith</b>   |
| The optimum stocking density in relation to carrying capacity of nursery grounds for Japanese flounder  | <b>Yoh Yamashita, Y. Kurita, Y. Tanaka, J. Miller, M. Tanaka</b>  |
| <b>Theme 6 – Biological insights from hatchery releases</b>   | <b>Chairs: Neil Loneragan, Shuichi Kitada</b>   |
| <b>Mini-keynote:</b> Overview of queen conch ( <i>Strombus gigas</i> ) restoration  | <b>Megan Davis, G. Delgado, R. Glazer</b>   |
| Stock enhancement and ecosystem carrying capacity in blue crab nursery habitats of Chesapeake Bay   | <b>Rochelle Seitz, R. Lipcius, K. Knick, M. Seebo, W. Chris Long</b>  |
| The CARE experience: post-larval collection and rearing for restocking of Marine Protected Areas  | <b>Sven-Michel Lourié, G. Lecaillon</b>   |
| Spatial scales of movement of released hatchery-reared and wild Atlantic cod  | <b>Torstein Pedersen, E. Cuveliers, E. Berg</b>   |
| Dispersal, habitat associations, survival, and residence time of hatchery-reared and wild juvenile red drum, <i>Sciaenops ocellatus</i> , in the Alafia | <b>Carole Neidig, D. Roberts, C. Armstrong</b>  |

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| River, Tampa Bay, Florida  |  |
| Stocking the Blackwood River Estuary, Western Australia, with the black bream <i>Acanthopagrus butcheri</i> .        | <b>Greg Jenkins</b> , D. French, I. Potter, S. de Lestang, N. Hall, G. Partidge, A. Hesp, G. Sarre |
| Natal homing of herring released in Miyako Bay   | <b>Hiroyuki Okouchi</b> , M. Nakagawa  |
| Optimizing fish size and applying a conditioning trial in a Danish flatfish stocking program.                        | <b>Claus Reedtz Sparrevojn</b> , J. Støttrup   |
| Movements of cultured white seabass, <i>Atractoscion nobilis</i> , released throughout the southern California Bight | <b>Michael Shane</b> , M. Drawbridge, D. Kent  |

#### DAY 4: Thursday, September 21, 2006

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| <b>Theme 7 – Arenas of progress</b>  | <b>Chairs: Lee Blankenship, Barry Berejikian</b>               |
| <b>Mini-keynote:</b> Restocking, stock enhancement and sea ranching: arenas of progress                        | <b>Devin Bartley</b> , J. Bell                                 |
| Stock enhancement and sea ranching- practices at Zhangzidao Island in the northern Yellow Sea, China           | <b>Qingyin Wang</b> , H. Wu, J. Fang, S. Wang                  |
| Stock enhancement and sea ranching activities in the East China Sea  | <b>Huaqing Lu</b> , J. Xu                                      |
| Enhancement of paua (abalone) stocks in New Zealand  | <b>Jeremy Cooper</b> (to be presented by Julie Hill)           |
| Current situation and the future of stock enhancement of yellowtail, <i>Seriola quinqueradiata</i> , in Japan  | <b>Keiichi Mushiake</b> , H. Yamasaki, H. Fujimoto             |
| Stock enhancement program for threatened species in Southeast Asia   | K. Okuzawa, <b>Ronald Maliao</b> , S. Buen-Ursua, J. Primavera |
| Current trends in hatchery techniques and stock enhancement for Chinese mitten crab, <i>Eriocheir sinensis</i> | <b>Yongxu Cheng</b> , X. Wu, X. Yang, A. Hines                 |
| Mark-release-recapture experiments of kuruma prawn by using microsatellites and mitochondrial DNA markers      | <b>Takuma Sugaya</b> , S. Nakano, M. Oka, K. Mushiake          |
| Utilization of deep seawater for Japanese scampi lobster broodstock, <i>Metanephrops japonicus</i>             | <b>Kazutoshi Okamoto</b>                                       |
| Using forced upwelling for nutrient enrichment to increase ocean ecosystem carrying capacity                   | <b>Philip Kithil</b>   |
| Enhancing the production of the open ocean ranch   | <b>Ian Jones</b>   |
| <b>Presentation of prizes for best student, oral and poster presentations</b>                                  |  |
| <b>Summing up and general discussion</b>   | <b>International Scientific</b>                                |

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