WORKSHOP ON “DEVELOPMENT OF ADVANCED SHIP SUPPORT SYSTEM USING INFORMATION TECHNOLOGY”

Background and Objectives
As represented by the IMO e-Navigation strategy, IT has also made rapid progress in the field of shipping for safe and effective maritime transportation. To address this situation, Tokyo University of Maritime Science and Technology (TUMSAT) has promoted research and development of operational technology using IT, such as Maritime Broadband Communication System, Electronic Navigation System, Advanced Operation Control System and Advanced Vessel Management System. Moreover, by taking advantage of the outcome in such R & D activities, TUMSAT has also fostered excellent human resources, who will open the way to the future for maritime society. On this occasion, we would like to introduce the research outcomes and exchange views.

Date and Venue
Thursday, 5 February 2009
Etchujima Hall, Etchujima Campus,
Tokyo University of Maritime Science and Technology

Program
13:00-13:10, Opening
Maritime Broadband Communication System
13:10-13:40, Development of Maritime Broadband Communication
Kohei Ohtsu and Ruri Shoji, Tokyo University of Maritime Science and Technology
13:40-14:10, Estimation of long term benefits of auxiliary wind propulsion by means of a traction kite
Peter Naaijen, Delft University of Technology

Electronic Navigation System
14:10-14:40, Study on Navigational Intention Exchange Support System
Yasuyuki Niwa, National Maritime Research Institute
14:40-15:10, A scaled-down version of the integrated navigational information system on seascape image for the training ship "SHIOJIMARU"
Takahiko Fujisaka, Tokyo University of Maritime Science and Technology

15:10-15:20(Coffee Break)

Advanced Operation Control System
15:20 - 15:50, Practical Education for Marine Control Engineering Using an Actual Training Ship
Jun Kayano and Tadatsugi Okazaki,
Tokyo University of Maritime Science and Technology
15:50 - 16:20, Title On the Development of Guidance System for Ships Operating in Close Proximity
Egil Pedersen, Norwegian University of Science and Technology

Advanced Management System for Marine Engineer
16:20 - 16:50, Knowledge bank system for marine engineering operation
Sachiyo Horiki and Masahiro Osakabe,
Tokyo University of Maritime Science and Technology
16:50 - 17:20, Development of self-generating operation-supporting system by using wearable devices
Katsunori Matsuoka, Advanced Industrial Science and Technology

17:20 - 17:30, Closing
18:00 - 19:30, Banquet (3000JPY)

Registration/Contact
The workshop is free of charge. For questions related to workshop content, please contact Dr. Jun Kayano, Department of Maritime Systems Engineering, Tokyo University of Maritime Science and Technology (e-mail: it@m.kaiyodai.ac.jp)