

What is JWA

(The Japan Workvessel Association)

As of Sept. 2015



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THE JAPAN WORKVESSEL ASSOCIATION

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●DIGEST OF THE JAPAN WORKVESSEL ASSOCIATION (JWA)

1. History of the Japan Workvessel Association

25 June 1958: Establishment of the Workvessel Technology Association

22 July 1960: Name changed to the Japan Workvessel Association

24 December 1964: The Association was approved by the Minister of Transport as an authorized corporation

20 July 2011: The Association became a general incorporated association as a part of the privatization of governmental associations

2. Objectives of the Japan Workvessel Association

The Japan Workvessel Association aims to contribute to economic and social development, and the development and conservation of national land through the development, improvement and disseminating of engineering and technology of workvessels, ships and related mechanical and electrical equipment.

3. Business of the Japan Workvessel Association

The Japan Workvessel Association conducts the following business to attain the above stated objectives.

- 1) Research on workvessels, ships and related mechanical and electrical equipment.
- 2) Disseminating of engineering and technology related workvessels, ships and related mechanical and electrical equipment through publications and lecture meetings
- 3) Research and studies on the evaluation and improvement of the performance of workvessels and ships, and putting their results to practical use.
- 4) Research and studies on the evaluation and improvement of the performance of mechanical and electrical equipment related to workvessels and ships, and putting their results to practical use.
- 5) Research and studies on construction engineering using workvessels and/or ships, and putting their results to practical use.
- 6) Planning, basic design, cost estimation and construction supervision of building, modification and repair of workvessels and ships.

- 7) Planning, basic design, cost estimation and construction supervision of manufacture, modification and repair of mechanical and electrical equipment related to workvessels and ships.
- 8) Other necessary business to attain the objectives of the Association.

4. Members of the Japan Workvessel Association

Class-1 member (Shipbuilding companies): 8 companies

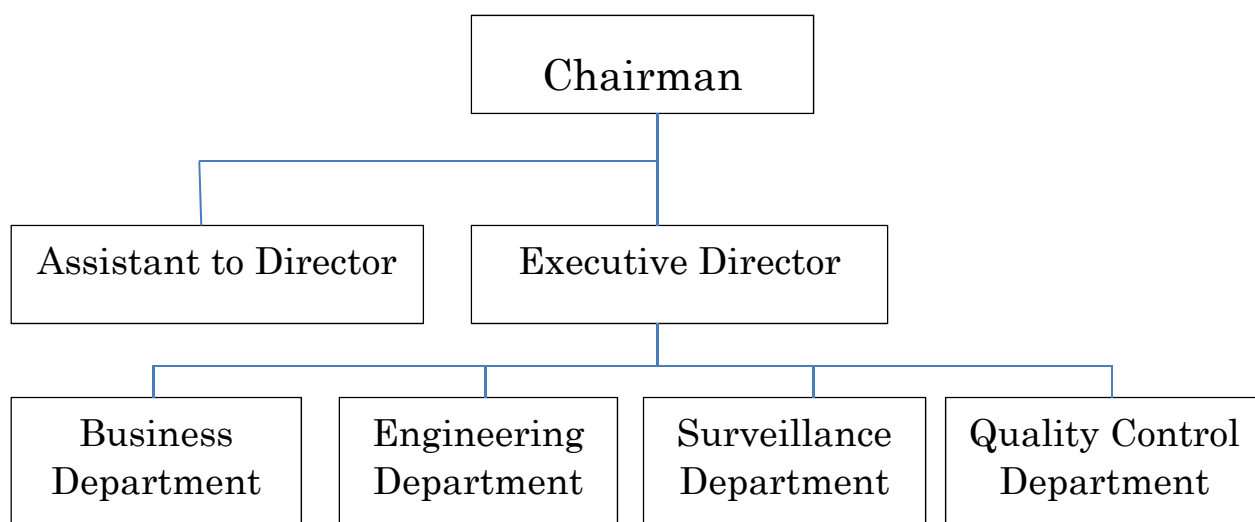
Class-2 member (Equipment manufacturing companies): 16 companies

Class-3 member (Marine construction companies): 19 companies

Class-4 member (Technical service companies): 8 companies

Class-5 member (Sales companies): 1 company

●ORGANIZATION



● SUMMARY OF BUSINESS OF JWA

I . Business Sector

(1) Steering Committee

Business plans will be created and the agenda for Board of Directors will be prepared for the smooth conduct of business operations.

(2) Business Committee

Plans for field surveys and lectures related to the latest technology and/or utilization of workvessels, will be prepared and enacted.

(3) Periodical Journal Editorial Board

The journal "Workvessels", issued four times a year, will be edited and distributed to the members, central & local governments, universities and national libraries.

(4) Existing Workvessel List Editorial Board

The latest Workvessel List existing in Japan will be investigated, updated and edited for issuing biannually.

(5) Overseas Technologies Research Committee

Information about the workvessels and related technology used abroad will be collected and introduced in the journal "Workvessel".

In addition, technologies related to Japanese workvessels and related technologies will be presented at the world dredging conference (WODCON). Next WODCON(21st) will be held in Florida , USA in June, 2016.

(6) Technical Steering Committee

Research contents will be evaluated and the research program for the next fiscal year will be planed.

(7)Organizing Lectures on Topics of Interest

(8)Issuing Publications

- 1) The journal "Workvessels" (Quarterly, 4 times per year)
- 2) "Existing Workvessel List" (Biannually, 2015 edition has been issued)
- 3) "Manufacturing and Repair Contract Price Index for Ship & Machinery "2015 edition, supervised by the Ministry of Land, Infrastructure, Transport and Tourism (MLIT)

II. Technical Sector

1. Independent studies division

- (1) Research of Aerial Photography from Balloon System
- (2) Research of construction and maintenance support vessels for ocean energy facilities
- (3) Riprap input operation support and maintenance system

2. Survey division

Research, planning, design, cost integration, and construction supervising of workvessels and related facilities

3. Technical consultation

Technical consultation on workvessels, such as statistics data, capacity of vessels, design, construction cost integration, and accidents, etc.

III. Lectures

Lectures on technical topics of current interest and/or by public figures every year.

Past examples of the lectures held by JWA are as follows:

1) Lectures on technologies of outstanding interest

- | | |
|-----------|--|
| 2010-8-10 | The Science of Traffic Jams --K. Nishinari (Prof., Tokyo Univ.) |
| 2011-9-27 | Japanese Energy Policy--A. Kuroki (Managing Director, IEE Japan) |
| 2012-7-20 | Status of Radioactive Contamination--H. Yamazaki (Prof. Kinki Univ.) |
| 2013-7-31 | Deep Sea Mining Sources-- T. Tsujimoto(Manager, JOGMEC) |
| 2014-7-29 | Deep Sea Research Technologies--Y. Isozaki (Director, JAMSTEC) |
| 2015-7-28 | Dragging of Anchors--T. Okada (Japan Ship Owners' P & I Club) |

2) Lectures by public figures

- | | |
|-----------|--|
| 2008-6-16 | Hiroyuki Itsuki (Novelist) |
| 2009-3-5 | Masataka Matsubara (Social Anthropologist) |
| 2010-3-1 | Yutaka Mino (Vice President, Sotheby's North America) |
| 2011-3-3 | Ayako, Sono (Novelist) |
| 2012-3-7 | Katsutoshi Hando (Novelist) |
| 2013-3-7 | Jiro Asada (Novelist) |
| 2014-3-6 | Yoichi Funabashi (Critic, formerly the editor-in-chief of Asahi Shimbun) |
| 2015-3-4 | Tetsuo Yamaori (Religious philosopher) |

IV. Overseas Technologies Research Committee

The World Dredging Conference (WODCON) has been held to date since 1967(1st conference) in the USA, as a forum for exchanging information about workvessels engaged in dredging and landfill.

1) Participation in WODCON:

From 1968 (the 2nd conference) to 2013 (the 20th conference), JWA had sent participants to WODCON. The next WODCON(21st conference) will be held in Florida , USA in June, 2016.

2) Participation in Dredging Seminar held by Eastern Dredging Association (EADA), one of the tree operating organizations of WODCON :

Three(3) persons from JWA attended an EADA Seminar held in Kolkata, India in January 2014.

●SUMMARY OF CONSULTING SERVICES BY JWA

(1) Surveys, Studies, Development, and Testing

JWA has received orders for surveys, technical studies, test planning, and test implementation, etc. for workvessels and related equipment as follows:

Workvessels:

- Surveys and technical studies on the automation and efficiency of Trailing Suction Hopper Dredgers
- Surveys and technical studies on the sophistication of Sea Surface Cleaning & Oil Recovery Vessels
- Surveys and technical studies on the sophistication of Survey Vessels
- Surveys and technical studies on new concept workvessels, such as Dredger with DPS (Dynamic Positioning System)
- Surveys and technical studies on transportation Shuttle Boat for seabed mineral resources

Sea Surface Cleaning & Oil Recovery Vessels:

- Surveys, technical studies and testing of oil recovery equipment and systems
- Surveys, technical studies and testing of recovery, cutting & separation for garbage & ulva
- Development studies of shallow water floating garbage recovery devices
- Technical studies of automatic mooring system

Observation Equipment:

- Surveys, technical studies and testing of Aerial Photography from Balloon Systems
- Surveys, technical studies and testing of sea-water suspended solids exploration equipment and systems
- Surveys, technical studies and testing of underwater obstacle exploration equipment and systems

Measures for Reduction of Exhaust Gas, Noise & Vibration

- Surveys, technical studies and testing of exhaust gas reduction measures for workvessels
- Technical studies on reducing rolling/pitching/heaving for workvessels
- Technical studies on reducing noise/vibration for workvessels

Others

- Surveys, technical studies and testing on riprap input operation support systems
- Surveys and technical studies of crisis management systems by workvessels
- Technical studies on long-period wave upset reduction systems
- Surveys of integration index for workvessels & machines

(2) Design and Supervising Work for Workvessels

JWA has received orders for technical studies, concept & basic designs, preparation of technical specification, cost estimation, drawing review for approval, and construction supervision, etc. of workvessels and related equipment as follows:

- Concept & basic design, preparation of technical specification, cost estimation, and construction supervision of Trailing Suction Hopper Dredgers
- Construction/ modification design, preparation of technical specification, cost estimation, and construction supervision of Sea Surface Cleaning & Oil Recovery Vessels
- Construction/ modification design, preparation of technical specification, cost estimation, and construction supervision of Survey Vessels
- Construction design, preparation of technical specification, cost estimation, and construction supervision of Channel Patrol Boats
- Construction/ modification design, preparation of technical specification, cost estimation, and construction supervision of Harbor Patrol Boats

- Construction design, preparation of technical specification, cost estimation, and construction supervision of Sea-surface Cleaning Boats
- Construction/modification design, preparation of technical specification, and drawing review of Floating Piers/Port Facilities
- Quantity calculation of GPS Wave Meters
- Design studies of dredging systems for deposited sands in dam lakes
- Support for design and procurement of Dredgers for dam lakes
- Studies on dosing system for Waste Repositories

(3) Maintenance & Management of Workvessels

JWA has received orders for actual surveys, technical studies of construction, preparation of technical specification, cost estimation, etc. for maintenance and management of workvessels and related equipment as follows:

- Trailing Suction Hopper Dredgers
- Sea Surface Cleaning & Oil Recovery Vessels
- Survey Vessels
- Channel Patrol Boats
- Harbor Patrol Boats

(4) Overseas Business Projects

JWA has received orders for design, bidding support, drawing review, and supervision at shipyards for workvessels and related facilities as follows:

- Basic design, bidding support, construction supervision of dredger fleet for the General Company for Ports of Iraq (Location)
 - Basic Plan (Tokyo and Jordan)
 - Bid support (Tokyo and Jordan)
 - Construction supervision (Tokyo, Netherlands & South Korea)
 - Trailing Suction Hopper Dredger (Netherlands)
 - Self-propelled Grab Dredger (Netherlands)
 - Self-propelled Crane Vessel (South Korea)
- Design and procurement support services of dredgers for dam in Malawi
 - Backhoe Dredgers (Tokyo)
 - Hopper Barges (Tokyo)
 - Pusher Barges (Tokyo)
- Concept design of floating port facilities for Vietnam
 - Imported Coal Loading Facilities (Tokyo & Vietnam)

JWA MEMBER COMPANIES

JWA is composed of five (5) classes of member companies as follows:

(Total 52 companies) As of Sept. 2015

Class-1 Member (Shipbuilding Companies)

JMU AMTEC

Japan Marine United Corporation

IHI Corporation

Kanagawa Dockyard Co., Ltd.

Kawasaki Heavy Industries, Ltd.

Mitsui Engineering & Shipbuilding Co.,Ltd.

Mitsubishi Heavy Industries, Ltd.

Niigata Shipbuilding & Repair, Inc.

Penta-Ocean Dredging Co., Ltd.

Kojima-Gumi Co., Ltd.

Penta-Ocean Construction Co., Ltd.

Shinko Kensetsu Corporation

Takenaka Civil Eng. & Construction Co., Ltd.

Toa Corporation

Toyo Construction Co., Ltd.

Tomac Corporation

Nippon Kaiko Co., Ltd.

Fukada Salvage & Marine Works Co., Ltd.

Fudo Tetra Co., Ltd.

Mirai Construction Co., Ltd.

Yoshidagumi Co., Ltd.

Yorigami Maritime Construction Co., Ltd.

Nissan-Rinkai Construction Co., Ltd.

Wakachiku Construction Co., Ltd.

Class-2 Member (Equipment Manufacturing Companies)

Kamome Propeller Co., Ltd.

Kurimoto, Ltd.

Koei Iron Works Co., Ltd.

Kobelco Construction Machinery Co., Ltd.

Sanwa Kizai Co., Ltd.

Daihatsu Diesel Co., Ltd.

Nakashima Propeller Co., Ltd.

Niigata Power Systems Co.Ltd.

Nishishiba Electric Co., Ltd.

Hitachi Construction Machinery Co., Ltd.

Furuno Electric Co., Ltd.

Minotsu Iron Works Co., Ltd.

Yanmar Co., Ltd.

Sekigahara Seisakusho Ltd

Denyo Co., Ltd.

Marine Hydro Tech Co. Ltd.

Class-4 Member (Technical Service Companies)

MEC Engineering Service Co., Ltd.

MHI Marine Engineers Ltd.

Marine GPS Promoting Solution

Marine Technology Institute Corp.

Research Institute for Ocean Economics

Japan Association of Cargo-Handling
Machinery Systems

Japan Port Consultants Ltd.

Hikari Industrial Co., Ltd.

Class-3 Member (Marine Construction Companies)

Ohtaki-Kohmuten Engineering Co., Ltd.

Ohmoto Gumi Co., Ltd.

Kanmon Kowan Kensetsu Co., Ltd.

Class-5 Member (Sales Company)

Nippon Quaker Chemical , Ltd.



Dr. KAIYO



BAY-SEARCH



UMIWAKA-Maru



COSMO



KAIKO



ISHIZUCHI



NAJIMA



KAIKI



HAYATAMA



SOKAKU-Maru

CONSULTING RECORD
ON
DESIGN,
PREPARATION OF TECHNICAL SPECIFICATION,
COST ESTIMATION
and CONSTRUCTION SUPERVISION
FOR
WORKVESSELS
(the last two decades)

Tug Boat: JWA Publication of Guideline for Basic Design of Tug Boat in 1985

Tug Boat: Loa=33.9m BP=min.54T Yokkaichi Port Authority

Basic Design, Preparation of Technical Specification, Cost Estimation in 2001

Tug Boat: 32 Tug Boats Local Governments

Basic Design, Preparation of Technical Specification and Cost Estimation from 1958 to 1995

Trailing Suction Hopper Dredger: Loa=103m Kyushu Regional Bureau

Concept & Basic Design, Preparation of Technical Specification and Cost Estimation from 1995 to 2000

Trailing Suction Hopper Dredger: Loa=94m Hokuriku Regional Bureau

Concept & Basic Design, Preparation of Technical Specification and Cost Estimation from 1995 to 2001

Trailing Suction Hopper Dredger: Loa=104m Chubu Regional Bureau

Concept & Basic Design, Preparation of Technical Specification and Cost Estimation from 2000 to 2005

Trailing Suction Hopper Dredger: Loa=70m, Tokyo metropolitan government

Concept & Basic Design, Preparation of Technical Specification, Cost Estimation and Construction Supervision from 2004 to 2011

Sea Surface Cleaning & Oil Recovery Vessel: Loa=32.5m Kinki Regional Bureau

Basic Design, Tank Test of Oil Skimmer, Preparation of Technical Specification, Cost Estimation and Construction Supervision from 2004 to 2007

Sea Surface Cleaning & Oil Recovery Vessel: Loa=33.5m Chubu Regional Bureau

Basic Design, Preparation of Technical Specification, Cost Estimation and Construction Supervision from 2005 to 2009

Sea Surface Cleaning & Oil Recovery Vessel: Loa=32.2m Kinki Regional Bureau

Basic Design, Preparation of Technical Specification, Cost Estimation and Construction Supervision from 2007 to 2011

Sea Surface Cleaning & Oil Recovery Vessel: Loa=32.2m Kinki Regional Bureau

Basic Design, Preparation of Technical Specification, Cost Estimation and Construction Supervision from 2009 to 2013

Sea Surface Cleaning & Oil Recovery Vessel: Loa=33.5m Shikoku Regional Bureau

Basic Design, Preparation of Technical Specification, Cost Estimation and Construction Supervision from 2008 to 2011

Survey & Sea Surface Cleaning Vessel: L=35m catamaran Kyushu Regional Bureau

Basic Design, Preparation of Technical Specification and Cost Estimation in 2010

Channel Patrol Boat: Loa=22m Kyushu Regional Bureau

Basic Design, Preparation of Technical Specification and Cost Estimation in 2005

Channel Patrol Boat: Loa=28m Kanto Regional Bureau

Basic Design, Preparation of Technical Specification and Cost Estimation from 2013 to 2014

Channel Survey Boat: Loa=21.2m catamaran Kyushu Regional Bureau

Concept & Basic Design, Preparation of Technical Specification and Cost Estimation from 2011 to 2015

Harbor Patrol Boat: Loa=17.4m Yokkaichi Port Authority

Basic Design and Preparation of Technical Specification from 2011 to 2012

Harbor Patrol Boat: Loa=20.3m Kinki Regional Bureau

Basic Design, Preparation of Technical Specification, Cost Estimation and Construction Supervision from 2012 to 2015

Harbor Patrol Boat: Loa=16m Kanto Regional Bureau

Basic Design, Preparation of Technical Specification and Cost Estimation from 2015 to 2016

Harbor Patrol Boat: Loa=18m Kawasaki City

Basic Design and Preparation of Technical Specification, from 2015 to 2016

Sea Surface Cleaning Boat: Loa=14m catamaran Miyagi Prefecture

Basic Design, Preparation of Technical Specification, Cost Estimation and Construction Supervision from 2010 to 2011

Sea Surface Cleaning Boat: Loa=14m catamaran Niigata Prefecture

Basic Design, Preparation of Technical Specification, Cost Estimation and Construction Supervision from 2009 to 2011

Sea Surface Cleaning Boat: Loa=11.5m catamaran Shizuoka Prefecture

Basic Design, Preparation of Technical Specification, Cost Estimation and Construction Supervision from 2012 to 2014

Sea Surface Cleaning Boat: Loa=9.5m catamaran Kyoto Prefecture

Basic Design, Preparation of Technical Specification, Cost Estimation and Construction Supervision from 2013 to 2015

Sea Surface Cleaning Boat: Loa=14.6m catamaran Yokkaichi Port Authority

Basic Design, Preparation of Technical Specification and Cost Estimation from 2014 to 2015

Sea Surface Cleaning Boat: Loa=14m catamaran Kagoshima Prefecture

Basic Design, Preparation of Technical Specification, Cost Estimation and Construction Supervision from 2014 to 2016
