

# **MARTIN, OTTAWAY, van HEMMEN & DOLAN, INC.**

*Marine Consultants, Engineers, Surveyors, Naval Architects and Appraisers*

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# **CORPORATE RESUME**

## **FOUNDED 1875**

Martin, Ottaway, van Hemmen & Dolan, Inc. is a worldwide marine surveying and consulting firm which has been in continuous operation since 1875.

The firm was founded in 1875 by Frank S. Martin and remained under the Martin family control for the next 85 years. In 1961, it was purchased by William T. Ottaway and his son Harry J. Ottaway and reincorporated under the name of Francis A. Martin and Ottaway, Inc.

In 1992, Henk van Hemmen, who had been a partner for a number of years, purchased the company and changed the name to Martin, Ottaway & van Hemmen, Inc.

In 1995, with the addition of new partners, the name was changed to Martin, Ottaway, van Hemmen & Dolan, Inc.

## **WORLDWIDE SERVICES**

Recognized as one of the United States' foremost marine consulting firms, MOvH&D is accustomed to providing engineering and surveying services on short notice all over the world.

## **APPRAISALS, SURVEYS AND ENGINEERING**

The firm engages in many types of work, including appraisals, construction and conversion supervision, damage surveys, inspections and investigations, proposal evaluations and consulting.

## **LITIGATION/ARBITRATION SUPPORT AND CLAIMS FORMULATION AND PRESENTATION**

Martin, Ottaway, van Hemmen & Dolan, Inc. is well known throughout the world for its members' expertise as expert witnesses supporting Attorneys, Solicitors, and Barristers in matters of maritime litigation. Additionally, the members of the company are often called upon by clients to formulate claims and make the presentation.

## **ALL TYPES OF MARINE EQUIPMENT**

Most of the firm's work is related to commercial maritime affairs, which includes shipyards, dry docks, offshore equipment, drill rigs, shore side equipment and floating construction equipment.

Vessel experience ranges from super tankers to small craft, including passenger ships, high performance vessels and yachts.

## **OVER 100 CLIENTS PER YEAR**

The firm serves a wide variety of clients in an even wider variety of tasks. These clients include the world's most prominent ship owners, underwriters, attorneys, investors and financial institutions. Services provided to these clients include claims formulation, expert testimony, construction supervision, failure analysis, salvage coordination, condition surveys, P & I surveys, vessel appraisals and proposal evaluation.

MOvH&D provides consulting services and performs surveys and appraisals on over 600 vessels per year.

Each year the firm's surveyors and engineers perform surveys and investigations in over 30 countries and represent over 100 clients.

The total value of damages and repairs surveyed, supervised and investigated by the company exceeds \$100,000,000 per year.

Martin, Ottaway, van Hemmen & Dolan, Inc. has performed services for governmental agencies, both U.S. and foreign, throughout its long history.

Having been under contract to the Maritime Administration since the late 1940's, Martin, Ottaway, van Hemmen & Dolan provides vessel appraisals for the United States Government War Risk Insurance Program.

In addition, the firm performs inspections for foreign ship registries in the United States and The Netherlands.

## **FULL FACILITIES AND RESOURCES**

MOvH&D maintains a computerized appraisal database and a computerized report processing system. The firm performs analyses such as computerized engine maintenance, damage studies on engines and finite element computerized structural calculations on a regular basis.

By experience and training, the staff and consultants have become knowledgeable with the requirements of the various regulatory bodies including the United States Coast Guard, the Maritime Administration and other national administrations, the major Classification Societies, IACS, Intertanko, BIMCO, IMO, FCC, OSHA, United States Public Health Service, and the NFPA.

Many of the key personnel have either formulated regulations for the above regulatory bodies or served in an advisory function.

The firm's headquarters are located at 172 Monmouth Street in Red Bank, New Jersey and has branch offices in Charleston, South Carolina, New Orleans, Louisiana, Philadelphia, Pennsylvania and Rotterdam, The Netherlands. Close associations and agreements are maintained with consultants in all major ports in the United States as well as in Piraeus, Greece, London, England and Singapore.

## PRINCIPAL ACTIVITIES OF THE FIRM

Martin, Ottaway, van Hemmen & Dolan, Inc. provides a variety of technical and engineering services to marine-related companies and the maritime community in the most general sense. Some of these are:

- A. *SHIP AND YACHT SURVEYS*
- B. *CARGO, HULL AND MACHINERY DAMAGE SURVEYS*
- C. *NAVAL ARCHITECTURAL SERVICES*
- D. *QUALIFIED INDIVIDUAL SERVICES*
- E. *HARBOR, DOCK, PIER AND OTHER MARINE FACILITY SURVEYS*
- F. *INSPECTIONS FOR CONDITION, VALUE AND SUITABILITY OF SERVICE OF ALL TYPES OF VESSELS*
- G. *SURVEYS OF OFFSHORE OIL EQUIPMENT OF ALL TYPES*
- H. *SUPERVISION OF SALVAGE EFFORTS OR WRECK REMOVALS*
- I. *VESSEL/DRYDOCK/OFFSHORE EQUIPMENT APPRAISALS*
- J. *ENGINEERING SERVICES*
- K. *DESIGN REVIEW*
- L. *CONSULTANT/SURVEY SERVICES DURING CONSTRUCTION*
- M. *CONSULTANT/SURVEY SERVICES FOR VESSEL MAINTENANCE, REPAIR OR CONVERSION*
- N. *CONSULTANTS FOR SPECIFIC VESSEL OPERATIONS*
- O. *ASSISTANCE IN ARRANGING RESCUE TOWING OR SALVAGE EFFORTS*
- P. *INFORMATION SOURCE ON MARINE SUBJECTS*
- Q. *EXPERT WITNESS SERVICES*
- R. *FORENSIC INVESTIGATIONS*
- S. *STATISTICAL FAILURE TRACKING AND ANALYSIS*
- T. *PROTECTION AND INDEMNITY SURVEYS*
- U. *ON-HIRE AND OFF-HIRE SURVEYS*
- V. *CHARTER PARTY EVALUATIONS*
- W. *TECHNICAL PROPOSAL EVALUATION*
- X. *TECHNICAL MODEL DESIGN AND CONSTRUCTION*
- Y. *INSURANCE CLAIM PRESENTATION AND REVIEW*
- Z. *CONSULTANTS ON REGULATORY CERTIFICATION*

## SURVEYING

Surveying, in all its forms, originally was the mainstay of Martin, Ottaway, van Hemmen & Dolan's activities. In recent years, due to the widening scope of activities, surveying now represents a smaller portion of staff concentration, but still is the focal point of Martin, Ottaway, van Hemmen & Dolan's business.

In this regard, Martin, Ottaway, van Hemmen & Dolan, Inc. performs on and off hire surveys, P&I Condition and Damage surveys, Charterer's Liability surveys, Flag State surveys, H&M surveys, Loss of Earnings and Loss of Hire surveys, Cargo surveys, Classification Society record search and review, Purchase surveys, Condition surveys, Lay-up surveys, Reactivation surveys, Builders risk surveys, Angle of Blow and Speed surveys and General Average surveys, on an almost daily basis for the entire range of clients.

All these types of surveys require different approaches and procedures, and a surveyor with experience in Flag State surveys is not necessarily qualified to perform a Lay-up survey.

Having represented so many interests, Martin, Ottaway, van Hemmen & Dolan's surveyors are intimately familiar with all types of surveys, reporting procedures, regulatory requirements, surveying techniques and the intricate interaction between the various parties in surveying situations.

In addition, many of Martin, Ottaway, van Hemmen & Dolan's surveyors are world class experts in Underwriters, Condition and Classification surveying and have taught classes and testified in courts worldwide on surveying procedures.

Some surveys only require condition reporting, while other surveys require investigation into the prime cause and recommended subsequent actions.

As far as cause is concerned, Martin, Ottaway, van Hemmen & Dolan, Inc. has investigated most types of damage that a vessel can incur, such as fire, explosion, earthquake, collision, grounding, service failure, design defect and crew negligence damages.

As consultants, Martin, Ottaway, van Hemmen & Dolan, Inc., excels in providing the client with the best course of action upon completion of the survey.

Martin, Ottaway, van Hemmen & Dolan, Inc., performs cargo damage surveys, out-turn and pre-shipment inspections. It specializes in investigating the technical aspects related to cargo damages.

While Martin, Ottaway, van Hemmen & Dolan, Inc. is probably one of the world's most qualified firms to perform Trip in Tow inspections, the Firm does not perform them based on undefineable liability considerations.

Next to ships, Martin, Ottaway, van Hemmen & Dolan, Inc. regularly surveys shipyards, shore-based facilities, offshore facilities, dry-docks and damages to piers, docks, bridges, cranes and other shoreside equipment.

## **CARGO SURVEYING**

Due to recent staff additions and our association with J.C. van Sas and Associates in Rotterdam, Martin, Ottaway, van Hemmen & Dolan, Inc. now provides cargo surveying services on behalf of underwriters, insurance agents, attorneys and transportation firms.

In undertaking these services, we draw upon a long and rich experience in handling cargo assignments around the world. Some of the areas of involvement include pre shipment inspections, risk evaluations, out turn inspections, cargo damage inspections (determination of nature, proximate cause and extent of loss), mitigation of loss and studies into prevention of recurrence. Investigations are undertaken into short shipments, delivery and theft.

A short list of the types of cargo inspected is: machinery, manufactured goods, fresh flowers, fruits and vegetables, other refrigerated cargo (meat, shrimp), food products (spices, dry fruits), household goods, arts and antiques, steel, bulk cargoes (grain, coal, ore, chemicals), oil and liquid cargoes and hazardous materials.

Martin, Ottaway, van Hemmen & Dolan, Inc. performs inspections of warehouses. These inspections report on the general conditions, fire and security, risks, evaluation of equipment and management and make recommendations to rectify current deficiencies.

Assistance can be provided in cargo loss mitigation and cargo salvage, and the Firm has a long established reputation for forensic analysis of cargo damages.

With its worldwide access through offices and affiliates located throughout the USA and in strategic ports overseas, Martin, Ottaway, van Hemmen & Dolan, Inc. offers a “one-stop” service to its clients. A phone call or written communication to its New Jersey head office or to any of its offices worldwide will result in fast, economical and most importantly, reliable service wherever needed.

## **INSURANCE CLAIM PRESENTATION**

The speed at which an insurance claim gets paid is almost always related to the quality of the presentation of the claim to Underwriters.

Martin, Ottaway, van Hemmen & Dolan, Inc. has been preparing insurance claims for Shipowners for over 100 years and prepares claims for some of the world's largest Shipowners.

This experience, together with a staff which includes a past chairman of the Association of Average Adjusters, professors at the College of Insurance and past senior executives of major underwriters surveying and classification companies, ensures that Martin, Ottaway, van Hemmen & Dolan, Inc. enjoys better underwriter's response than any other consulting firm in the world.

In general, the best approach to an insurance-related incident is to contact Martin, Ottaway, van Hemmen & Dolan, Inc. at the earliest opportunity, in order for us to advise the client on the best procedure to be followed.

Insureds, who do not immediately retain an experienced consultant, often are faced with entangled insurance claims at a later stage. Some of those Insureds are even faced with having to consider legal action against the Underwriters. After investigating the circumstances of such claims, Martin, Ottaway, van Hemmen & Dolan, Inc. often still can develop an approach which results in recovery of the claim.

Unrepaired damage claims are marine Hull and Machinery Claims that took place during a policy term but were never repaired. Nevertheless, the Shipowner still has a right to collect part of the repair costs of such a claim, if the unrepaired damage diminishes the value of the vessel at the end of the policy period. Martin, Ottaway, van Hemmen & Dolan, Inc. presents such claims on a regular basis and can provide the Shipowner with assistance in rapid recovery of such claims.

An interesting feature of claim presentations is that the underwriter generally pays for the costs involved in the presentation of the claim, which includes the consultant's fees and expenses.

In addition to Hull and Machinery Claims, Martin, Ottaway, van Hemmen & Dolan, Inc. also has vast experience in providing assistance in liability or general average situations. The proper action in the initial stages of such situations can greatly reduce a cargo or Shipowner's later exposure.

## **GROUNDINGS, COLLISIONS, SINKINGS, FIRE AND SALVAGE**

Due to tightening regulations, more critical underwriters, more stringent environmental aspects, increased liability exposure and less available salvage resources, an involved party can find himself quickly overpowered in a salvage situation.

While the underwriters generally provide assistance aimed at their specific interest, for many reasons this assistance might not be in the involved party's best benefit from an overall perspective.

In case of a grounding, collision, sinking, fire or salvage situation, Martin, Ottaway, van Hemmen and Dolan's experts can provide immediate and personal assistance in evaluating the multitude of options available to a Shipowner, both at the time of the incident and during the claims presentation, salvage, cargo disposal and repair stages.

Martin, Ottaway, van Hemmen & Dolan, Inc. has represented all parties in numerous damage incidents and is probably more familiar with the complex interactions between interested parties than any other consulting firm in the world.

The firm's experience and resources are of great value in determining whether declaring a Constructive Total Loss, signing Lloyds Open Form, declaring General Average, making temporary, permanent or deferred repairs, to tow or proceed under own power, abandonment or compromised total loss are the options which are in the client's best interest.

In addition, Martin, Ottaway, van Hemmen & Dolan's extensive and close professional contacts within the industry often are instrumental in a speedy and economical resolution of catastrophic marine disasters.

Early retention of an experienced consultant will always result in reduced economic losses to a party involved in a collision, grounding, sinking, fire or salvage situation.

Martin, Ottaway, van Hemmen & Dolan, Inc., having been involved in virtually every major shipping disaster in recent history, is uniquely positioned to provide assistance in such situations.

## **APPRAISALS AND EVALUATIONS**

Shipping, as a commercial venture, requires appraisals and evaluations of equipment for financing, investment, taxation, insurance, limitations of liability and general average purposes, etc.

Each year, Martin, Ottaway, van Hemmen & Dolan, Inc. performs over 300 vessel appraisals and numerous equipment and facility appraisals for Shipowners, financial institutions, attorneys, Governments and Underwriters. The firm is automatically accepted as the most reliable source of vessel appraisals in U.S. Federal Courts and by the U.S. Government.

In order to be able to perform appraisals, Martin, Ottaway, van Hemmen & Dolan, Inc. maintains a computerized appraisal database, which contains practically every large ship sale in the world and maintains up-to-date research files on ship repair and construction costs, charter rates, industry trends, regulatory requirements and their associated commercial effects and financing opportunities.

Much of this data goes back to the late 1800's and has been used as a unique reference in complex ship finance and taxation issues.

For many clients, Martin, Ottaway, van Hemmen & Dolan, Inc. goes beyond the simple determination of the value of a vessel or an equipment item and performs detailed economic or investment analyses of entire shipping corporations, shipyards, cruise lines, offshore or transportation ventures, including specific geographical trades.

Such analyses are extensions and more complex combinations of the various appraisal methods for which Martin, Ottaway, van Hemmen & Dolan, Inc. has all available resources.

In conjunction with many ship-type evaluations, Classification record reviews and on board Condition surveys are conducted as an adjunct to the appraised value.

## **DAMAGE ASSESSMENT, STRUCTURAL AND STABILITY CALCULATIONS**

Martin, Ottaway, van Hemmen & Dolan, Inc. has provided engineering assistance in the assessment of damaged stability and residual structural strength on numerous occasions. Such assistance has been provided to Salvors, Shipowners and Underwriters on all types of vessels.

At times these calculations are performed for attorneys on a “what if” basis. For example, the firm performed a detailed analysis of the damage pattern, stability and oil outflow of the “EXXON VALDEZ” due to damage sustained from the grounding on Bligh Reef and of a vessel similar to the “EXXON VALDEZ” but fitted with a double bottom.

MOvH&D provides Smit Americas Inc., with Naval Architectural assistance on their Western Hemisphere salvage operations and as such regularly attends on salvage efforts as the technical advisor to the Smit Salvage Master.

Such attendance requires rapid technical evaluation of often unstable situations, a task for which the staff at the firm is particularly well suited through training and actual experience.

Within the OPA 90 structure and various contractual arrangements, Martin, Ottaway, van Hemmen & Dolan, Inc. serves as the technical consultant on naval architectural matters to OPA 90 response organizations.

The personnel of the firm also has attended as the technical consultant on actual OPA 90 emergencies.

Next to emergency assessments, MOvH&D regularly performs damage assessments, structural and stability calculations on the office computer analysis systems for interested parties, both for accident investigation and risk assessment purposes.

While not presently engaged as such, if so desired, Martin Ottaway, van Hemmen & Dolan can provide OPA 90 required damage assessment, structural and stability calculations to ship Owners by maintaining their vessel particulars on the computer system.

## **EXPERT TESTIMONY IN LEGAL CASES**

Owners and their attorneys often have need for review of trial documentation and testimony to defend or pursue their case in court or at arbitration. This type of consulting requires significant experience in all phases of marine transportation.

The firm is well placed to provide this service and has a long history of providing experts dealing with survey, operations, sales and purchase, maintenance, technical and regulatory questions.

The staff of Martin, Ottaway, van Hemmen & Dolan, Inc. includes naval architects, marine engineers and mechanical engineers who have experience in dealing with courts in Europe and the U.S.A. Giving testimony in courts and arbitration for owners, underwriters, financiers, the U.S. Government and their attorneys is common practice in our offices.

Types of cases covered by the firm include fire and explosion, vessel loss, maritime fraud, structural failure, contract disputes, appraisals, damage claims and personal injury.

## NON-MARINE TECHNICAL SERVICES

Over the last decade, Martin, Ottaway, van Hemmen & Dolan, Inc. has become increasingly active in non-marine technical consulting.

Some of the firm's clients have become aware that many systems used in the maritime field also are in use in non-marine applications and have gradually engaged this firm in assisting them in such applications.

Such applications could be shore-based diesel engines, refrigeration equipment or hydraulic equipment. These clients have engaged MOvH&D to investigate the cause of damage incidents or evaluate cost or risk management aspects.

In addition to such carry over activities, the firm also has in house expertise and experience on a wide variety of non-marine activities. Such activities include:

- Intermodal operations, such as trailer and chassis acquisition, maintenance and repair.
- Shore-based crane and lifting gear acquisition, maintenance and repair and design evaluation.
- Composites design evaluation, manufacturing and maintenance.
- Manufacturing and storage plant fire safety and risk assessment.
- Computer simulations.
- Heating and ventilation.
- Human factors design.
- Software design.
- Product quality monitoring.
- Instrumentation and strain gauging.
- ISO 9000, 14000 and TQM procedures.

Next to Marine Engineers and Naval Architects, the firm employs engineers trained in electronics, aerospace and ocean engineering, civil engineering and mechanical engineering.

The following is a selection of assignments that may illustrate the type of non-marine services the firm has provided over the last few years.

- Investigation of refinery production system and product handling procedures in connection with bunker oil problems. Complete review of pumping station, tank park and pipeline systems and laboratory procedures and product quality control.
- Investigation into the failure of an office water cooler in a large office building, which flooded various office spaces including a computing center and a computer-aided design office. MOvH&D was engaged by the tenant of the office in which the water cooler had been installed. On the tenant's behalf, the firm organized joint surveys of the damage, negotiated repair costs and testified in court on the cause of the failure.
- Investigation into the failure of a container chassis tire rim on behalf of the chassis owners. This assignment included analysis of repair practices and reliability of truck tires.

- Investigation into the cause of an overturned tractor/trailer combination on behalf of the trailer owners, including investigations into cargo weight discrepancies and trails of responsibility.
  
- Investigation into the failure of the hydraulic system in a “jaws of life” rescue tool on behalf of the manufacturer’s liability underwriters, including hydraulic design and manufacturing practices.
  
- Numerous investigations on lifting equipment, such as personnel lifting devices, heavy lift cranes and container cranes. Investigations were related to failure of fittings, failure due to unusual weather conditions and operator errors. These assignments were for various clients such as owner’s liability underwriters, equipment owners and property underwriters.
  
- Delivery surveys on a large number of “clip-on” refrigeration units for purchasers.
  
- Investigations into the origins of asbestos insulation on equipment manufactured at various worldwide locations.
  
- Condition inspection of a used newspaper baler plant for repossession purposes.
  
- Investigations into the arrangement of a warehouse fire fighting system to determine the chain of events leading to a fire and failure of the fire fighting system.
  
- Transportation surveys on ultra-large land based gas turbine generator units.
  
- Investigation of pump failure in a chemical storage and distribution plant.
  
- Damage surveys on wide ranges of industrial equipment, such as newspaper recycling plants, bottle blowing machines, flight simulators, butter packing machines and coin stamping machines, including making recommendations leading to restoration.

Testimony in U.S. Courts on technical product liability issues often requires that the testifying expert has a Professional Engineer’s license. Martin, Ottaway, van Hemmen & Dolan, Inc. has a licensed Professional Engineer on the staff, who also is a member of the National Academy of Forensic Engineers.

## **ENGINEERING, RESEARCH AND RISK MANAGEMENT SERVICES**

Martin, Ottaway, van Hemmen & Dolan, Inc. provides design construction, repair or conversion supervision services, both as consultants at the planning stage or settlement stage or on-site on a worldwide basis for the duration of the project.

Shipowners engage Martin, Ottaway, van Hemmen & Dolan, Inc. to determine the cause of equipment or structural failures and to devise maintenance or repair methods which will reduce the occurrence of such failures.

Attorneys engage Martin, Ottaway, van Hemmen & Dolan, Inc. to perform equipment or structural failure studies to be used as evidence during court proceedings.

Shipowners, financial institutions or investors interested in new ventures engage Martin, Ottaway, van Hemmen & Dolan, Inc. to evaluate the technical aspects of a venture from a technical risk or liability risk point of view.

Martin, Ottaway, van Hemmen & Dolan's personnel and corporate structure does not allow it to competitively provide detailed design or drafting services. In cases where a project does involve detail design or large amounts of drafting, such work is generally subcontracted.

Martin, Ottaway, van Hemmen & Dolan, Inc. has working and subcontracting agreements in place with some of the most respected Naval Architectural, Mechanical and Civil Engineering design firms in the nation who, on various occasions, have provided such services.

In return, the firm also provides specialized engineering services to those design firms on their projects.

Those specialized engineering services take advantage of Martin, Ottaway, van Hemmen & Dolan's experience in operations and failure analysis, human factors engineering, vessel maintenance, regulatory issues, conversion and repair, surveying, risk management and basic research.

For example, Martin, Ottaway, van Hemmen & Dolan's extensive experience in studying operational failures is drawn upon by Naval Architectural design firms to design vessels with fewer service failures and also by Civil Engineering firms in the design of marine facilities.

## **QUALITY/SAFETY/ENVIRONMENTAL MANAGEMENT CONSULTING**

The international shipping community is faced with the need to demonstrate formalized quality, safety and environmental management both on board ships and in the office.

In general this should be in accordance with the following standards and codes:

ISO9000 series (ISO9001, ISO9002 & 14000)

IMO A647 - ISM CODE (SOLAS Chapter IX)

There are two distinct needs to accomplish compliance:

1. Preparation for certification
2. Certification

Certification can only be carried out by recognized certification bodies. However, because this exclusivity presents an inherent conflict, the same bodies cannot perform the task of preparation for the Shipowner.

Members of Martin, Ottaway, van Hemmen & Dolan, Inc. have been involved in the formulation of many of these regulations and can assist the Shipowners in the process of setting up the proper management systems, the proper manuals and in preparing the shipowner for the actual audit and certification.

This service includes sending a team into the Shipowner's office and aboard representative vessels to insure that the system saturation is sufficient to meet the appropriate standard, and, if necessary, to fine tune the operating system.

Either the Shipowner, or the firm assisting the Shipowner, can produce the manuals, after which certification by the certification body is a relatively straight-forward procedure.

## **INFORMATION RESOURCES**

The projects Martin, Ottaway, van Hemmen & Dolan, Inc. engages in naturally result in a very heavy involvement in all aspects of maritime and industrial affairs.

The worldwide scope of the firm, the large variety of clients served, and projects performed each year positions Martin, Ottaway, van Hemmen & Dolan, Inc. as a unique information resource in the marine industry.

Martin, Ottaway, van Hemmen & Dolan, Inc. maintains a very extensive library containing technical references, operational manuals, periodicals, specifications, failure studies, industry sales literature, regulations, government studies and economical data. This information is computer catalogued and is continually updated.

In addition, the firm has access to on-line databases of some of the world's best technical libraries and a multitude of professional, technical and industrial societies.

In many professional societies, Martin, Ottaway, van Hemmen & Dolan, Inc. has a leading involvement and our personnel are involved in numerous technical and regulatory committees.

All of this has resulted in Martin, Ottaway, van Hemmen & Dolan, Inc. becoming an important information resource to its clients. In many cases, our clients have contacted us to locate vital information, to quickly position a representative for the client, either legal or technical, in distant locations around the world or to provide reliable background information on technical or commercial issues.

Martin, Ottaway, van Hemmen & Dolan, Inc. is certainly committed to providing the best possible service in all its activities, and is especially proud of its ability to provide valuable information to its clients faster than any other available information resource.

## **CRUISE VESSELS**

Martin, Ottaway, van Hemmen & Dolan, Inc. has a wide and varied background in cruise ship construction, maintenance, repair, operations and financing.

Martin, Ottaway, van Hemmen & Dolan's cruise ship experience includes ocean-going cruise ships, gambling ships, coastal and river cruise vessels, diving excursion vessels and even sternwheelers.

Members of Martin, Ottaway, van Hemmen & Dolan, Inc. are fully conversant with the new SOLAS Regulations due for implementation in the 1994-2000 time frame.

The firm is closely attuned to the special requirements in the cruise industry, such as the strict scheduling requirements, image sensitivity and passenger safety regulations.

In the last few years, Martin, Ottaway, van Hemmen & Dolan, Inc. has represented investors for technical evaluation of refurbishment proposals, performed life extension and refinancing surveys for financial institutions, assisted Shipowners with builder's and repairer's negligence claims and assisted underwriters in personal injury claims.

The staff of Martin, Ottaway, van Hemmen & Dolan, Inc. has managed passenger ship construction and major conversions, amongst others, the lengthening of the M/V "WESTERDAM" in 1990.

## **DRYDOCKS**

Martin, Ottaway, van Hemmen & Dolan, Inc. has been involved in the procurement, surveying, financing, appraisal, repairing, modification, operation and maintenance of drydocks on a regular basis.

Martin, Ottaway, van Hemmen & Dolan, Inc. counts shipyard managers, risk assessment specialists and shipping finance specialists amongst its staff.

These specialists can provide assistance in the analysis of the viability of drydock acquisitions, market share prognosis, drydock valuations and drydock construction cost analysis.

Martin, Ottaway, van Hemmen & Dolan's operational staff can provide assistance in arranging drydock transportation, certification and insurance.

The technical staff of MOvH&D can provide assistance in identifying maintenance and repair needs, development of modifications and has been accepted as the surveyors for U.S. Navy certification.

Drydocks are a very specialized technical subject where a potential buyer or user can be faced with many unexpected surprises. When moved, for example, almost all drydocks will require modifications to their electrical systems, some of which can be very expensive. Others may be solved for a relatively small amount of money.

Drydock mooring arrangements come in many varieties, all with their inherent advantages and disadvantages.

The positioning of a drydock, both as far as the plant location and the physical location of the drydock within the plant is concerned, can greatly affect insurance premiums and operating costs.

Some features, or the lack of features on a drydock, may make it prohibitively expensive to become U.S. Navy certified.

Minor changes in the physical dimensions and features of drydocks may greatly affect the drydock's earning power.

On these issues and many others related to drydocks, Martin, Ottaway, van Hemmen & Dolan, Inc. can provide invaluable experience, which will prevent unexpected additional expenses in the purchase, insurance, certification and installation of a drydock.

## **QUALIFIED INDIVIDUAL SERVICES**

When requested by our clients, the firm is prepared to offer and supply Qualified Individuals in order to comply with the requirements of the Oil Pollution Act of 1990 (OPA 90 ) and the requirements of Regulation 26, Annex I of The International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978 ( MARPOL/SOPEP ). The applicable Company/Shipboard documents being:

1. OPA 90 “Vessel Response Plan”
2. MARPOL “Shipboard Oil Pollution Emergency Plan”

In addition to providing qualified individuals, the firm is prepared to be listed as team members for the oil spill response group listed in client’s spill response plans and manuals and can provide certified individuals as Qualified Individuals, as well as straight technical and logistical support personnel.

At present, the firm does not prepare response plans but does have an arrangement with an associated firm which can do this type of work.

The firm also has an arrangement that allows it to interface with response contractors if requested by our clients.

The firm is presently representing as Qualified Individuals, numerous shipping companies with a total ship compliment exceeding forty vessels, operating in and out of the United States.

## YACHTS

Martin, Ottaway, van Hemmen & Dolan, Inc. is regularly engaged in consultation on yacht issues.

The Firm's involvement with yachts generally deals with issues related to the construction, maintenance and repair of very large yachts, or with damage issues in excess of \$100,000.

Such damage issues include sinkings, collisions, fires, chartering disputes, warranty issues, structural issues, personal injuries or repairers' negligence.

Martin, Ottaway, van Hemmen & Dolan has investigated and testified on insurance fraud issues, performed repair and salvage estimates, and consulted on yacht construction and design procedures.

In addition, due to the ever increasing size of yachts, many systems and maintenance practices, which were formally only found in commercial vessels, are now also installed on yachts.

In this regard, the same services that Martin, Ottaway, van Hemmen & Dolan, Inc. provides for commercial interests also are being provided for yachting interests.

Martin, Ottaway, van Hemmen & Dolan, Inc. also has solid experience in issues which are commonly associated with yachts such as osmotic blistering, electrolytic corrosion on aluminum yachts, specialty coatings and planing hull behavior for which Martin, Ottaway, van Hemmen & Dolan, Inc. has consulted to Owners, governments and Underwriters.

## PARTIAL LIST OF CLIENTS

(Some have undergone name changes as a result of mergers and affiliations)

A. BILBROUGH & CO.	P and I Underwriters
A.I. MARINE ADJUSTERS, INC.	Average Adjusters
A.N.L.	Shipowners
AON RISK SERVICES	Insurance Brokers & Adjusters
ACCESS CREDIT	Financial Institution
ACOMARIT SERVICES MARITIMES S.A	Maritime Agents & Consultants
ADAMS & PORTER INC.	Insurance Adjusters & Brokers
ADMANTHOS SHIPPING AGCY., INC.	Shipowners
AEGEAN MARITIME AGENCIES, INC.	Shipowners and Operators
AETNA INSURANCE COMPANY	Underwriters
AKERMAN, SENTERFITT & EIDSON, P.A.	Attorneys
AKZO SALT	Chemical Company
ALCOA STEAMSHIP CO., INC.	Shipowners
ALEXANDER & ALEXANDER, INC.	Insurance Broker and Adjusters
ALIOTO & ALIOTO	Admiralty Attorneys
ALLIED SIGNAL, INC.	Financiers
AMERADA HESS CORP.	Oil Company/Shipowners
AMERICAN BUREAU OF SHIPPING	Classification Society
AMERICAN EXPRESS CO.	Financial Institution
AMERICAN HAWAII CRUISES	Cruise Ship Operators
AMERICAN HULL INSURANCE SYNDICATE	Marine Underwriters
AMERICAN MARITIME TRANSPORT	Shipowners
AMERICAN MARINE INSURANCE GROUP, INC.	Marine Underwriters
AMERICAN MARINE UNDERWRITERS	Marine Underwriters
AMERICAN PRESIDENT LINES	Shipowners
AMOCO	Oil Company
APEX OIL COMPANY	Shipowners
AMERICAN STAR LINES	Shipowners
ARAMCO	Oil Company
ARENT, FOX, KINTNER, PLOTKIN & KAHN	Attorneys
ARNOLD, RICHARD & SONS	Insurance Adjusters
ATLANTIC CONTAINER LINES	Shipowners
ATLANTIC MUTUAL INSURANCE CO.	Insurance Company
ATLANTIS MARITIME AGENCIES	Shipowners & Brokers
AZTECA TRADING COMPANY	Shipowners
B&H SHIP MANAGEMENT CO.	Shipping Company
B & P INTERNATIONAL, INC.	Average Adjusters
BAHRAIN MINISTRY OF FINANCE	Government Institution
BARNETT BANK OF JACKSONVILLE	Financial Institution
BARTON & MOUNTAIN	Attorneys
BAY TANKERS, INC./BAY SHIP MANAGEMENT INC.	Shipowners
BEHAN MARINE ASSOCIATES	Marine Consultants
BELCHER OIL COMPANY	Bunker Suppliers
BELL ATLANTIC CAPITAL CORP.	Financial Institution
BERMUDA AGENCIES, LTD.	Underwriters' Representatives
BERTSCHMANN & MALOY INC.	Agent for Overseas U/W's
BETANCOURT, VAN HEMMEN & GRECO	Admiralty Attorneys
BETHLEHEM STEEL CORPORATION	Ship Repairers and Builders
BIGHAM, ENGLAR, JONES & HOUSTON	Admiralty Attorneys
BINGHAM, DANA & GOULD	Admiralty Attorneys
BOAL, DOTI & LARSEN	Admiralty Attorneys
BOGLE & GATES	Admiralty Attorneys
BOLIVARIANA DE NAVIGACION, S.A.	Shipowners
BOOZ ALLEN AND HAMILTON INC.	Marine Consultants
BOWSER, HAROLD S.	Insurance Adjuster
BOW VALLEY OFFSHORE DRILLING LTD.	Owners/Operators Off-shore Drill Rigs
BRASIL SALVAGE, INC.	Underwriter's representatives
BRASWELL SHIPYARD, INC.	Ship Repairers
BRITISH MARINE MUTUAL INSURANCE ASSN. LTD.	Marine Underwriters
BROKERAGE & MANAGEMENT CORP.	Shipowners & Brokers
BROWN, SIMS, WISE & WHITE	Admiralty Attorneys
BURBANK, A. L. & CO., LTD.	Ship Operators & Brokers
BURISLEE SHIPPING SERVICES	Shipowners and Agents
BUREAU VERITAS	French Classification Society
BURKE & PARSONS	Admiralty Attorneys
BURLINGHAM, UNDERWOOD & LORD	Admiralty Attorneys
BURMAH OIL TANKERS LTD.	Shipowners

C.A. VENEZUELANA DE NAVIGACION	Shipowners
CSX TRANSPORTATION	Multi-modal Transportation Corporation
CALAHAN & EHRET	Attorneys
CALVESBERT & BROWN	Admiralty Attorneys
CANADIAN COAST GUARD	Government Department
CANADIAN IMPERIAL BANK OF COMMERCE	Financial Institution
CANADIAN ULTRAMAR LTD.	Shipowners and Oil Company
CARDILLO & CORBETT	Admiralty Attorneys
CARGILL	Brokers and Shippers
CARLISLE STEAM NAVIGATION	Ship Operators
CARL TEGENBORG	Average Adjuster
CARIBBEAN STEAMSHIP CORPORATION	Shipowners
CASE, KAY, LYNCH	Admiralty Attorneys
CASINOS AUSTRIA MARITIME	Shipowners
CAYMAN SHIPPING CORPORATION	Shipowners
CHAFFE, McCALL, PHILLIPS, TOLLER & SARPY	Admiralty Attorneys
CHAMBER, TABERS, SIPPLE & WACTEM	Admiralty Attorneys
CHANDRIS N.Y., INC.	Shipowners
CHASE MANHATTAN BANK	Banking Institution
CHEMICAL BANK	Banking Institution
CHEMICAL CHARTERING INC.	Shipowners
CHIQUITA BRANDS, INC.	Shipowners
CHILEAN LINES, INC.	Liner & Berth Operators
CHRYSLER CAPITAL CORP.	Financial Institution
CICHANOWICZ, CALLAN & KEANE	Admiralty Attorneys
CITITRUST BAHAMAS LTD.	Bankers
CLANN & PEARSON	Admiralty Attorneys
CLARK, LADNER, FORENBAUGH & YOUNG	Admiralty Attorneys
COASTAL CORPORATION	Shipowners and Terminal Operators
COCA COLA BOTTLING CO.	Shipowners
COLE & DIETZ	Admiralty Attorneys
COLONNA SHIPYARD, NORFOLK	Ship Repairers
COMPANIA NAVIERA MINERA DEL GOLFO, S.A.	Shipowners
COLUMBUS LINE	Shipowners
CONE AND ASSOCIATES	Attorneys at Law
CONNELL, BURNETT	Attorneys
CONSOLIDATED MARITIME SERVICE LTD.	Shipowners
CONSORCIO NAVIERO PERUANO S.A.	Shipowners
CONSTANT AND CONSTANT	Admiralty Attorneys
CONTINENTAL MARITIME OF SAN FRANCISCO, INC.	Shipyards
CORESTATE NATIONAL BANK	Financial Institution
CORROON & BLACK CO.	Insurance Brokers & Adjusters
COULOUTHROS (U.K.)	Shipowners
COURTNEY WILDER STANTON, ESQ.	Admiralty Attorney
COVE SHIPPING INC.	Shipowners
COWARD, CHANCE	Admiralty Attorneys
CROWELL, ROUSE & VARIAN	Admiralty Attorneys
CRYSTAL CRUISES INC.	Cruise Ship Company
CULNY, INC.	Steamship Operations
CUNARD LINE	Shipowners
CURACAO DRYDOCK (U.S.A.) INC.	Ship Repairers
CURRY, JOHN F. AGENCY INC.	Insurance Brokers & Adjusters
DANIEL F. YOUNG, INC.	Freight Forwarders
DART ORIENTAL SERVICES	Shipowners
DE KONING & MULDER	Attorneys
DELMONTE BANANA COMPANY	Shipowners & Charterers
DELPHINE SHIPPING CORP.	Shipowners
DELTA QUEEN STEAMBOAT CO.	Shipowners
DELTA STEAMSHIP LINES, INC.	Shipowners
DENHOLM SHIP MANAGEMENT	Shipowners and Managers
DE ORCHIS AND PARTNERS	Admiralty Attorneys
DERECKTOR SHIPYARD	Shipbuilders/Repairers
DONOVAN, MALOOF, WALSH & KENNEDY	Admiralty Attorneys
DOUGHERTY, RYAN, MAHONEY	Admiralty Attorneys
DUTCH SHIP MORTGAGE BANK	Financial Institution
DUTRA CORPORATION	Dredging Company
E.R. LINDLEY & ASSOCIATES INC.	Average Adjusters
EAGLE OCEAN TRANSPORT, INC.	Shipowners
EASTERN SHIPYARD PILE DRIVING CO.	Dredging & Harbor Construction

EASTHAM, WATSON, DALE & FORNEY	Admiralty Attorneys
ECOLOGICAL SHIPPING CORP.	Shipowners
EDON, LIDDIARD AND VINCE CO.	Marine Consultants
EG&G DYNATREND	Liquidators
ELBORNE MITCHELL, LONDON	Admiralty Attorneys
E.L.M.A. GENERAL AGENCY CORP.	Ship Operators
EMPRESSA PUERTO DE COLOMBIA	Shipowners
ELWELL, JAMES W. & CO., INC.	Shipowners
ENERGY TRANSPORTATION CORP.	Shipowners
EVANS, OSBORNE, KRIEZMAN AND WELCH	Attorneys
EWIG INTERNATIONAL MARINE CORP.	Ship Agents
EXXON COMPANY, U.S.A.	Shipowners
FARIS, ELLIS, CUTRONE & GILMORE	Admiralty Attorneys
FARRELL LINES INC.	American Flag Liner Company
FENZEL & PERRONE	Admiralty Attorneys
FIRST INTERSTATE BANK OF CALIFORNIA	Bankers
FIRST NATIONAL BANK OF CHICAGO	Bankers
FIRST UNION NATIONAL BANK	Financial Institution
FLAGSHIP GROUP, LTD.	Underwriters
FLEET CREDIT CORP.	Financial Institution
FLORIDA NATIONAL BANK	Financial Institution
FLOTA MERCANTE GRANCOLOMBIANA	Shipowners
FOLEY, HOAG & ELIOT	Admiralty Attorneys
FREEHILL, HOGAN & MAHAR	Admiralty Attorneys
G MARINE	Ship Repairers
GAB BUSINESS SERVICES, INC.	Insurance Adjusters
G.D. FENWICK	Ship Surveyors
GENERAL DE LA FEDERACION DE LA MEXICO	Government Authority, Shipping
GENERAL ELECTRIC CAPITAL CORP.	Financial Institution & Shipowners
GENERAL ELECTRIC TRANSPORTATION & INDUSTRIAL FUNDING	Shipowners
GEORGIA PACIFIC CORP.	Shipowners
GOTAAS-LARSEN, INC.	Shipowners
GRAINGER, TESORIERO & BELL	Admiralty Attorneys
GRANCOLOMBIANA, (NEW YORK), INC.	Shipowners
GRANELCO TRANSPORTADORA COLUMBIANA	Shipowners
GREAT AMERICAN INSURANCE COMPANIES	Underwriters
GREAT LAKES DREDGING	Coastal Construction & Dredging
GREAT WHITE FLEET	Reefer Operators
GREYHOUND LEASING CO.	Financial Institution
GROUPE CHEGARAY	Claims Adjusters
H. GOLDSTEIN	Attorneys
GOVERTZMAN, PREFFER, TOKER & LEFKOWITZ	Attorneys
GYPNUM TRANSPORTATION LTD.	Shipowners
H.C. KNIGHT & CO.	Insurance Brokers and Adjusters
HAIGHT, GARDNER, POOR & HAVENS	Admiralty Attorneys
HALL, FRANK B. & CO. OF N.Y., INC.	Insurance Brokers & Adjusters
HALL, FRANK B. & CO. OF FLORIDA	Insurance Brokers & Adjusters
HALL, FRANK B. & CO. OF LOUISIANA	Insurance Brokers & Adjusters
HALYPS CARRIERS, INC.	Shipowners
HAPAG LLOYD	Shipowners
HAYDEN AND MILLIKEN, INC.	Admiralty Attorneys
HEALY & BAILLIE	Admiralty Attorneys
HEALY & McCAFFEY	Admiralty Attorneys
HEEREMA MARINE CONTRACTORS	Offshore Oil Operators
HEEREMA HOLDING CO., INC.	Offshore Contractors and Investors
HILL, BETTS & NASH	Admiralty Attorneys
HILL DICKINSON	Admiralty Attorneys
HILL, RIVKINS, LOESBERG, O'BRIEN, MULROY & HAYDEN	Admiralty Attorneys
HRH PRINCE AGA KHAN c/o HENRY C. CARNEGIE	Yacht Owner
HOEGH LINES	Shipowners
HOLLAND AMERICA LINES	Cruise Line Company
HOLLAND AMERICAN WESTOURS, INC.	Passenger Shipowners
HOLMAN, FENWICK & WILLAN	Admiralty Attorneys
HOLTZMANN, WISE & SHEPPARD	Attorneys
HUDIG-LANGEVELDT G.M.B.H.	Insurance Brokers
HUNTON & WILLIAMS	Admiralty Attorneys
HVIDE SHIPPING INC.	Shipowners
ICC INDUSTRIES, INC.	Shipowners
INCE & CO.	Admiralty Attorneys
INCOTRANS ROTTERDAM	Shipowners

INSCO MARINE INC.	Insurance Company
INSURANCE COMPANY OF NORTH AMERICA	Underwriters
INTERMARINE MANAGEMENT, INC.	Marine Consultants
INTERMODAL TECHNICAL SERVICES, INC.	Marine Surveyors
INTERNATIONAL INSPECTION SERVICE	Consultants/Lloyds Agent
INTERNATIONAL MARINE NETWORK, INC.	Marine Consultants
INTERNATIONAL SURPLUS LINES, INC.	Underwriters
INTERSEA OPERATIONS, LTD.	
IONIAN TRANSPORT INC.	Shipowners
ITT SHIPPING AGENCY	Shipowners & Agents
IVARANS REDERI	Ship Operators
J.F. STROSCHER ASSOCIATES	Insurance Brokers & Adjusters
JACQUES PIEROT, JR. & SONS	Ship Sale & Purchase Brokers
JACOBSON SHIPYARD	Boat Builders & Repairers
JAMAICA MERCHANT MARINE LTD.	Shipowners
JAMES, FRED S. & CO., INC.	Insurance Brokers & Adjusters
JARDINE INSURANCE BROKERS	Insurance Brokers
JAY RANDOLPH VIDERS, P.C.	Admiralty Attorneys
JETT, AGELASTO, BERKELEY, FURR & PRICE	Admiralty Attorneys
JIMINEZ, GRAFFAM & LAUSELL	Admiralty Attorneys
JOHNSON & HIGGINS	Insurance Brokers & Adjusters
JONES, WALKER, WAECHTER, POINTEVENT, CARRERE & DENEGRE	Admiralty Attorneys
JWP, INC.	Ship and Barge Owners
KAISER ALUMINUM & CHEMICAL CORP.	Shipowners
KAYE, SCHOLER, FIERMAN, HAYS & HANDLER	Admiralty Attorneys
KELLY, HARRINGTON, McLAUGHLIN & FOSTER	Admiralty Attorneys
KENSINGTON INTL. MARINE CORP.	Insurance Brokers & Adjusters
KERR STEAMSHIP COMPANY	Shipowners
KEYSTONE SHIPPING COMPANY	Shipowners
KINGSLEY & KINGSLEY	Attorneys at Law
KIRLIN, CAMPBELL & KEATING	Admiralty Attorneys
KOCH SHIPPING	Transportation Company
KOREA SHIPPING AMERICAN INC.	Shipowners
KROLL & TRACT	Attorneys at Law
KRUSEN, EVANS & BYRNE	Admiralty Attorneys
LAU, LANE & PIEPER	Attorneys at Law
LALEMONT CARIBBEAN OPERATORS	Ship Operators
LAMORTE, BURNS & CO., INC.	P & I Representatives
LAW DEPT., THE CITY OF NY	Municipal Government
LEACH AND PAYSSE	Admiralty Attorneys
LEEDS & LEEDS	Insurance Brokers & Adjusters
LESTER, SCHWAB, KATZ & DWYER	Product Liability Attorneys
LEXINGTON TRANSPORT INC.	Agents
LILLY, SULLIVAN & PURCELL	Admiralty Attorneys
LINDLEY, E.R. & ASSOCIATES, INC.	Average Adjusters
LINEAS MARITIMAS DOMINICANA	Shipowners
LISKOW & LEWIS	Admiralty Attorneys
LLOYDS REGISTER OF SHIPPING	Classification Society
LORD, DAY AND LORD	Admiralty Attorneys
LOUCAS G. MATSAS & CO.	Shipowners
LUGENBUHL, WHEATON, PECK & RAKIN	Admiralty Attorneys
LUCIUS PITKIN, INC.	Metallurgists
LYGNOS BROTHERS SHIPPING, INC.	Shipowners
LYKES BROS.	Shipowners & Operators
MAINLINE MARINE	Tug Owners
MALTA MARITIME AUTHORITY	Government Institution
MANDELBAUM, SALZBURG, GOLD, LAZRIS, DISCENSA & STEINBERG	Attorneys
MANUFACTURERS HANOVER	Financial Institution
MARINE CLAIMS PARTNER	Insurance Brokers
MARINE CONSULTANTS INC.	Ship Surveyor
MARINE DEFENSE GROUP	P & I Underwriters representatives
MARINE OIL & GAS ADJUSTING SERVICES, INC.	Offshore Brokers & Adjusters
MARINE PARTNERS INC.	Insurance Brokers
MARINE PETROLEUM TRANSPORT CORP.	Tug Boat Owners
MARINE SPILL RESPONSE CORP.	Oil Spill Response Organization
MARINE TRANSPORT LINES, INC.	Bulk Carrier & Tanker Operators
MARITIME OVERSEAS CORP.	American Flag Bulk & Tanker Operators
MARITRANS	Tug and Barge Operators

MARLER, SPROULE & PILOTTE	Admiralty Attorneys
MARSH & MCLENNAN, INC.	Insurance Brokers & Adjusters
MARTOCCI, MICHAEL	Admiralty Attorney
MATHER & CO.	Insurance Adjusters
MATSON NAVIGATION COMPANY	Shipowners
MATTHEWS MATSON & KELLY	Attorneys
MATTIONE, MATTIONE & MATTIONE	Attorneys
McALLISTER BROS. INC.	Tugboat Owners & Operators
McDONALD, HERBERMANN & FENZEL	Attorneys
McMASTER MEIGHEN	Admiralty Attorneys
McDERMOTT, INC.	Offshore Contractors
MEDITERRANEAN AVERAGE ADJUSTING CO.	Average Adjusters
MEHAFFY, WEBER, KEITH & GONSOULIN	Admiralty Attorneys
MENDES & MOUNT	Attorneys
MERCANTE NACIONAL S.A. DE C.V.	Shipowners
MERCER MANAGEMENT CONSULTANTS	Financial Consultants
MIDLAND MARINE, INC.	Agents
MILITARY SEA-LIFT COMMAND	Federal Government
MONROE & LEMAN	Admiralty Attorneys
MONTAUK CHARTERING, INC.	Charterers
MORAN TOWING & TRANSPORTATION	Tugboat Owners
MORGAN GUARANTEE	Bankers
MOUNT SHIPPING INC.	American Flag Bulk & Tanker Operators
MULTIVEST FINANCIAL SERVICES	Financial Institution
MURRAY TUBE WORKS	Boiler Tube Fabricators
NACIONAL FINANCIERA, S.N.C.	Investment Bankers
NATIONAL BULK CARRIERS, INC.	Bulk & Tankers Operators
NATIONAL MOLASSES, INC.	Shippers
NAUSCH, HOGAN & MURRAY, INC.	Admiralty Attorneys
NAVIOS SHIP MANAGEMENT CO.	Shipowners & Operators
NEW ENGLAND POWER SERVICE	Shipowner
NEWMAN, SCHLAU, FITCH & BURNS	Admiralty Attorneys
NEWPORT NEWS SHIPYARD	Shipbuilders
NEW YORK CITY DEPT. OF CORRECTIONS	Government Institution
NEW YORK CITY DEPT. OF TRANSPORTATION	Government Institution
NEW YORK CROSS HARBOR RAILROAD TERMINAL CORP.	Tug and Barge Operators
NEW YORK TELEPHONE	Communications Company
NOMIKOS, A.M. & SON LTD.	Ship Managers
NORFOLK, BALTIMORE & CAROLINA, INC.	Tugboat Operators
NORFOLK SHIPBUILDING & DRY DOCK CO.	Ship Repairers
NORTHBROOK PROPERTY & CASUALTY INSURANCE	Claims Adjusters
NORTHEAST PETROLEUM CO.	Shipowners & Operators
NORTON LILLY & CO., INC.	Ship Managing Agents
NORTON, ROSE	Admiralty Attorneys
NOURSE & BOWLES	Admiralty Attorneys
OBER, KALER, GRIMES & SHRIVER	Admiralty Attorneys
OCEAN AIR CARGO CLAIMS	Correspondent for Overseas U/W's
OCEANIC ADJUSTERS, LTD.	Insurance Adjusters
OIL & MARINE ADJUSTERS	Insurance Brokers & Adjusters
OMI CORPORATION	Shipowners
O'NEILL, EICHIN, MILLER & BRECKINRIDGE	Admiralty Attorneys
OVERSEAS ADJUSTERS CORP.	Insurance Adjusters
OVERSEAS SHIPPING GROUP	Shipowners and Operators
P & O BULK CARRIERS	Shipowners
P & O SHIPMANAGEMENT LTD.	Ship Operators
PALMER, BIEZUP & HENDERSON	Admiralty Attorneys
PELLEGRINO, GUIFFRA & ZAMBITO	Admiralty Attorneys
PETER DOHLE, SCHIFFAHRTS - KG.	Shipowners
PETROLEOS MEXICANOS, SUBDIRECCION COMERCIAL	Mexican Government
PHELPS, DUNBAR, MARKS, CLAVERIE	Admiralty Attorneys
PHILLIPS PETROLEUM CO.	Tanker Operators
PHS VAN OMMEREN SHIPPING (USA)	Ship Agents, Owners and Operators
PITNEY BOWES	Financial Institution
POLES, TUBLIN & PATESTIDES	Admiralty Attorneys
POSEIDON AVERAGE ADJUSTERS (NEW YORK), LTD.	Average Adjusters
POST & CO.	Underwriters Agents
POWELL, POPP AND IKARD	Admiralty Attorneys

PROVIDENT COMMERCIAL GROUP	Financial Institution
PUERTO RICAN MARINE MANAGEMENT INC. (Navieras de Puerto Rico)	Shipowners
RAWLE & HENDERSON	Admiralty Attorneys
RBH RIED & CARR, INC.	Insurance Brokers & Adjusters
RANDALL, R.F. LTD.	Attorneys
REGENT SHIPPING, LTD.	Shipowners
REILLY ASSOCIATES LOSS MANAGEMENT	Average Adjusters
RESOLVE MARITIME CORPORATION	Shipowners
RICHARDS, HOGG INTERNATIONAL	Insurance Adjusters
RICHARDS BUTLER	Admiralty Attorneys
ROBINS, KAPLAN, MILLER & CIRESI	Attorneys
ROLLINS, BURDICK & HUNTER	Insurance Brokers & Adjusters
ROSENBLATT, M. & SON	Ship Designers
ROSS, J. AND ASSOCIATES	Admiralty Attorneys
ROYSTON, RAYZOR, VICKERY & WILLIAMS	Admiralty Attorneys
SCANDINAVIAN MARINE CLAIMS OFFICE, INC.	Underwriters Agency
SCHIFFSMACKER-BEFRACHTUNGSAGENT-REEDEREI	Shipowners
SCHNADER HARRISON SEGAL & LEWIS	Attorneys at Law
SEABORNE INTERNATIONAL, INC.	Average Adjusters
SEAHAWK INTERNATIONAL ASSOCIATES	Insurance Adjusters
SEAHAWK MANAGEMENT, INC.	Shipowners
SEATIDE BROKERS	Insurance Brokers
SEA ESCAPE	Ship Owners
SEA-LAND SERVICE INC.	Container Ship Operators
SECURITY PACIFIC NATIONAL BANK	Bankers
SEDGWICK JAMES & CO. OF NEW YORK INC.	Average Adjusters
SELKIRK MANAGEMENT	Ship Managers/Owner
SHEARSON, LEHMAN, HUTTON	Investment Bankers
SHIPOWNERS CLAIMS BUREAU, INC.	Average Adjusters
SHELL OIL COMPANY	Oil company
SHUTTLEWORTH, RULOFF ET AL	Attorneys at Law
SIMPSON, SPENCER & YOUNG	Ship Agents & Charterers
SMITH AND HULSEY	Admiralty Attorneys
SMIT INTERNATIONAL AMERICAS INC.	Ship Salvors
SOUTH EAST BANK N.A.	Financial Institution
SPENTONBUSH TRANSPORT SERVICE	Tugboat Operators
SPORL, C.A. & CO.	Insurance Brokers & Adjusters
SPRAKE, TREVOR P., INC.	Average Adjusters
STANDARD CHARTERED BANK	Lending Institution
STANDARD, WEISBERG, HECKERLING & ROSOW, P.C.	Attorneys
STANSHIP CORP.	Shipowners
STAR KIST TUNA	Fishing Boat Operators
STIKEMAN ELLIOT	Admiralty Attorneys
STOLT-NIELSON, INC.	Shipowners
SWEET CLAIMS CO.	Claims Adjusters
TNT HYDROLINES	Ferry Operators
TAGSHIP, INC.	Ship Operators
TECHNICAL ADVISORY SERVICE FOR ATTORNEYS (TASA)	Technical Consultant Service Agency
TECOMAR, S.A.	Container Liner Company
TECNICA DE MANTENIMIENTO NAVAL, S.A., D.E.C.V.	Ship Repairers
TERRIBERRY, CARROLL, YANCY & FARRELL	Admiralty Attorneys
TEXTRON MARINE SERVICE	Ship Builders
THATCHER PROFFITT & WOOD	Admiralty Attorneys
THALASSIC STEAMSHIP AGENCY, INC.	Shipowners
THE SALVAGE ASSOCIATION	Underwriters' Surveyors
THE STEAMSHIP MUTUAL UNDERWRITING ASSOCIATION, LTD	P & I Underwriters
THE TAX COMPANY	Investment Banking Group
THOMAS R. MILLER & SON	P & I Underwriters
THOMPSON, HINE & FLORY	Attorneys
TILDEN, JOHN P., LTD.	Insurance Brokers & Adjusters
TITAN	Shipowners, Salvors
TODD SHIPYARDS CORP.	Ship Builders and Repairers
TOMASELLI & CO.	Admiralty Attorneys
TOOL, TAYLOR, MOSELY, MILTON & JOINER	Admiralty Attorneys
TOPLIS & HARDING	General Average Agents and Adjusters
TRANSATLANTIC SEAWAYS	Shipowners

TRANSPORTATION MARITIME MEXICANA S.A.	Shipowners
TRANSPORT MUTUAL SERVICES	P & I Underwriters' Representatives
TRANS ATLANTIC MARINE CLAIMS AGENCY	P & I Agents
TREVOR SPRAKE	Average Adjusters
TRIDENT MARINE MANAGERS, INC	Shipowners
TRINDER NORWOOD	Average Adjusters
TRINIDAD CORPORATION	Shipowners
TRITON SHIPPING INC. (LEMOS)	Shipowners
TRUSONIC INVESTMENTS, LTD.	Financial Institution
TSAKOS SHIPPING & TRADING, SA	Shipowners
TUG & BARGE CO. (McALLISTER)	Tug Boat & Barge Owners
TURECAMO COASTAL AND HARBOR TOWING COMPANY	Tugboat Owners & Operators
TURNER, W.J. INC.	Insurance Brokers & Average Adjusters
U.S. WEST CAPITAL	Financial Institution
UK P&I CLUB	P&I Underwriters
UNION CARBIDE	Shipowners
UNITED BRANDS CO. (CHIQUITA)	Fruit Growers and Shippers
UNION MARINE TRANSPORT, INC.	Shipowners/Operators
UNITED ARAB SHIPPING COMPANY	Shipowners/Operators
UNITED JERSEY BANK/CENTRAL N.A.	Financial Institution
UNITED STATES GYPSUM COMPANY	Shipowners
UNIVERSAL MARINE CONSULTANTS LTD.	Marine Consultants
UNIVERSAL METAL MACHINE WORKS	Repairers
U.S. ATTORNEYS OFFICE, SOUTHERN DISTRICT OF NEW YORK	Attorneys
U.S. DEPARTMENT OF NAVY (NAVAL SEA SYSTEMS COMMAND)	Government Department
U.S. DEPARTMENT OF JUSTICE	Government Agency
U.S. MARITIME ADMINISTRATION	Government Agency
U.S. TREASURY DEPT. (I.R.S.)	Government Agency
VALERO ENERGY CORP.	Oil Company/Bunker Suppliers
VAN SAS, J.C. & ASSOCIATES	Average Adjusters
VANDEVENTER, BLACK, MEREDITH & MARTIN	Admiralty Attorneys
VARNIMA SHIPPING AGENCY, LTD.	Shipowners
VENCARIBE, C.A. (VENEZUELA)	Shipowners
VENEZUELAN LINES	Shipowners
VENEZUELA, REPUBLIC OF (COMPTROLLERS OFFICE IN U.S.A.)	Government Agency
VERGOTTIS LTD. (LONDON)	Ship Owners
VICTORY CARRIER CORP.	Shipowners
VILLAREAL & BANKER	Admiralty Attorneys
VINE, ABEL & CO. LTD.	Marine Consultants
V SHIPS (USA) INC.	Ship Operators
WAESCHE, SHEINBAUM & O'REGAN	Admiralty Attorneys
WAKE, SEE, DIMES ET AL	Attorneys at Law
WALKER & CORSA	Admiralty Attorneys
WALLEM SHIP MANAGEMENT LTD.	Ship Operators
WATERFRONT RESTAURANT	Restaurant Operators
WATERMAN STEAMSHIP CORP.	Shipowners
WEST OF ENGLAND	P & I Underwriters
WHEELOCK MARINE SERVICES LTD.	Shipowners
WILLIAMS, WORRELL, KELLY & GREER	Admiralty Attorneys
WIMPEY MARINE, INC.	Offshore Constructors
W.K. WEBSTER	Agents
ZALKIN, RODIN & GOODMAN	Attorneys
ZIM-ISRAEL NAVIGATION CO.	Shipowners
ZOCK, PETRIE, REID & CURTIN	Admiralty Attorneys

## **HENK van HEMMEN**

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### PROFESSIONAL EXPERIENCE

2000 - Present

Past President, MARTIN, OTTAWAY, van HEMMEN & DOLAN, INC.  
Engineering and Marine Consultant. Areas of specialization include marine operations, marine insurance, forensic engineering, and surveying for Underwriters, financial institutions, ship owners, the United States Government and attorneys. Serving as an arbitrator in maritime arbitration cases.

1992 - 2000

President and principal Owner, MARTIN, OTTAWAY, van HEMMEN & DOLAN, INC.

1980 - 1992

Vice President and Partner, FRANCIS A. MARTIN & OTTAWAY, INC.

1978 - 1980

Vice President and Chief Surveyor, UNITED STATES SALVAGE ASSOCIATION, INC., New York, N.Y. Responsible for the company's operations, and services provided by approximately 80 staff surveyors and 100 foreign representatives worldwide.

1976 - 1978

Principal Surveyor - Atlantic District, UNITED STATES SALVAGE ASSOCIATION INC., New York, N.Y. Surveying work for marine underwriters, offshore contractors and ship owners, including damage surveys, condition and valuation surveys on vessels, offshore equipment and dry docks, trip in tow approvals of ocean going tows, drill rig moves, salvage work, shipyard inspections for repairers and builders risk underwriters.

Survey of floating dry docks and approval for ocean transportation and heavy offshore equipment for marine underwriters.

1974 - 1976

Resident Surveyor, UNITED STATES SALVAGE ASSOCIATION, INC., Rotterdam, Holland.

1968 - 1974

Underwriters' Surveyor, UNITED STATES SALVAGE ASSOCIATION, INC., Rotterdam, Holland, also operating in the Middle East region intermittently.

1966 - 1968

Superintendent Engineer, HOLLAND AMERICA LINE, Rotterdam, Holland.

General supervision of ship's hull and machinery maintenance and repairs (a variety of 39 vessels, including 5 passenger ships up to 36,000 GRT, General Cargo, Reefer and Container vessels with both diesel and steam propulsion plants).

General supervision of new construction electrical shipboard installations.

In charge of maintenance, repairs and conversions to the company's buildings, premises, quays, stevedoring warehouses, cranes, crane tracks and piers.

Supervision of the stevedoring department technical division (17 gantry cranes, crane tracks, stevedores garage, Hi-lo trucks, cargo transportation vehicles, container straddle-carriers).

Management of the company-owned Fleet Repair Shop (120 workers) including machinists, fitters, electricians, carpenters, painters, auto mechanics and crane repair squad.

1959 - 1966

Assistant Superintendent Engineer, HOLLAND AMERICA LINE, Rotterdam, Holland.

1951 - 1959

Marine Engineer, HOLLAND AMERICA LINE. Served at sea in various ranks. Served on passenger, general cargo, and refrigerated cargo vessels trading Trans-Atlantic routes; U.S. East and West coasts, South America, and Caribbean Area to European ports.

#### NOTABLE PROJECTS

Coordinated technical activities related to HOLLAND AMERICA LINE'S entry into the container trade.

Conversion of a Dutch passenger liner under the German flag.

Removal of six damaged, watertube boilers from a 36,000 GRT passenger liner,

installation of five U.S. Navy surplus boilers and subsequent recommissioning of the vessel for Trans-Atlantic and cruise trade in a ten week interval.

Offshore equipment inspection and evaluation for Construction Companies in the Arabian Gulf.

Inspection for underwriters of all major French Shipyards in connection with Construction of Liquefied Natural Gas Carriers.

Investigation of underwriters' exposure in VLCC (super tanker) trade.

Condition surveys of commercial floating dry docks in connection with the U.S. Navy certification process.

Expert witness assisting attorneys in litigation and arbitration in all phases of ship and engine disputes. Experience with court and arbitration procedures in the USA, England and The Netherlands.

## EDUCATION AND PROFESSIONAL QUALIFICATIONS

Associate-Professor in Marine Surveying at the College of Insurance, New York, N.Y.

Upgraded Certificates as Marine Engineer by passing Federal Exams after self-tuition (1955 and 1959)

All qualified "Cum Laude"

All licenses are qualified Steam and Diesel Marine Engineering licenses, unlimited horsepower as issued by the Dutch Government

Bachelor's of Science degree from the Marine-Engineering Academy, Rotterdam, Holland. Graduated June, 1951

Training period with Maschinen Fabrik Augsburg-Nurnberg (M.A.N.), diesel engine manufacturers, at Augsburg, Germany. Served as a trainee in assembly and test-bed procedures for large propulsion diesel engines

Shipyards apprenticeship program

College Preparatory School, Groningen and Schiedam, Holland

Followed separate courses in:

- Industrial Management (1 year)

- Evening Classes Industrial Lubrication Techniques
- Ship's fire protection, fire fighting and equipment at the training school of the Rotterdam Fire Department (Certified)
- Certified Qualified Individual for the Oil Pollution Act of 1990 and proven competent at the level of OSHA 24-Hour On-Scene Commander as per 29 CFR 1910.120(q) at Massachusetts Maritime Academy's Center for Marine Environmental Protection and Safety

### Memberships

Member of Ship Owners' Technical Council until 1968  
 Member Society of Naval Architects & Marine Engineers and Chairman of the Ship Repair and Conversion Committee  
 Member of the Board of Directors of the Society of Marine Port Engineers New York, N.Y. Inc.  
 Associate member of Average Adjusters of the United States  
 Chairman of the Association of Average Adjusters of the United States (1997 – 1998)  
 Subscriber to the British Association of Average Adjusters  
 Past committee member National Fire Protection Association (NFPA) Gas hazards committee 1976 - 1978  
 Member of the Maritime Law Association (non-lawyer status)

### Awards

The Federal Citation "Marine Engineering Academies 1951" for excellence.

### Technical Publications

Contributor on sections dealing with marine surveying on "Ocean Marine Insurance" published by The Insurance Institute of America.

Contributor on "Industrial Fire Hazard" (publication - National Fire Protection Association), chapter on Shipyards 1989.

Author of paper, "Marine Claims Formulation", presented to the Society of Marine Port Engineers.

Co-author of paper, "Engineering in the World War II Shipbuilding Program", presented to the Society of Naval Architects and Marine Engineers.

Author of paper, “The Marine Consultant and His Function in Claims Formulation”, presented to the International Insurance Conference on Marine Insurance and Maritime Laws in Kaliningrad, Russia. Also co-sponsor of this conference (1993).

Author of paper, “Technical Supervision - A Case Study”, presented to the International Insurance Conference on Marine Insurance and Maritime Law in St. Petersburg, Russia (1994).

Author of paper, “Marine Claims Presentation and the Ground Rules”, presented to the Institute of Marine Engineers in Rotterdam, The Netherlands (1994).

Author of paper, “How the Independent Surveyor's Damage Assessment Protects the Owner's Interest”, presented to the Ship Repair and Marine Maintenance Conference, Houston, Texas (March 1996).

Co-author of paper, “The Restoration of Sea-Land Voyager: Lessons Learned from a Flooded Engine Room”, presented to the Society of Naval Architects and Marine Engineers (October 1996).

Author of paper, “Call Them As You See Them”, presented as Chairman’s Address to the Association of Average Adjusters of the United States (October 1998).

Author of paper, “The Art of Saying No!” presented to the Seminar of the Society of Marine Consultants (February 1999).

Languages: Dutch, English, and German fluent  
French, reading

Nationality: United States Citizen

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## **JAMES L. DOLAN**

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### **PROFESSIONAL EXPERIENCE**

2000 – Present

President, MARTIN, OTTAWAY, van HEMMEN & DOLAN, INC.

1995 - 2000

Managing partner, MARTIN, OTTAWAY, van HEMMEN & DOLAN, INC., a full range marine consulting firm with offices in Red Bank, New Jersey, New Orleans, Louisiana, Charleston, South Carolina and Rotterdam, Netherlands.

1993 - 1995

Partner, MARTIN, OTTAWAY, van HEMMEN & DOLAN, INC. Areas of specialization include classification and regulatory matters, marine engineering, structural surveys, construction supervision, industrial verification, technical personnel management and safety, environmental and quality operational procedures.

1991 - 1993

Senior Vice President, Marine Coordination, AMERICAN BUREAU OF SHIPPING. Responsible for ensuring that appropriate policies, procedures, standards and work instructions are established and implemented worldwide.

Rendering decisions on operating issues of critical importance to ABS marine business by virtue of strategic impact or external sensitivity.

Rendering decisions on exceptions to established marine policies, procedures or standards.

Providing authoritative reviews relative to granting or removing ABS Classification.

Liaising with the Law Department on legal matters pertinent to ABS at a corporate level.

President, MARINE SERVICES, INC. Responsible for the non-classification marine business of ABS in the United States.

Additional company positions held concurrently:

Director of:

ABS Computers, Inc.  
ABS Group of Companies, Inc., New York Corporation  
ABS Group of Companies, Inc., New Jersey Corporation  
ABS Industrial Verification, Inc., New Jersey Corporation  
ABS Marine Services, Inc.  
ABS Europe Ltd.  
ABS Boiler and Marine Technical Services Company (FIA - Taiwan)  
American Bureau of Shipping (Hong Kong) Ltd.  
ABS Industrial Verification (India) Pvt. Ltd.  
ABS Worldwide Technical Services (Malaysia) Sdn. Bhd.  
Nederlandsche-Hellenic Classification Services, B.V.

1987 - 1991

Senior Vice President - Classification/Certification, AMERICAN BUREAU OF SHIPPING. In charge of all worldwide operations including budgeting, manning, field and technical services and client account management. Total budget/P&L responsibility - \$120 million revenue and \$110 million expenses.

1985 - 1987

Vice President, Operations, AMERICAN BUREAU OF SHIPPING. In charge of Operations staff at world headquarters including field surveys, policies, instructions and guidance, statistical reporting, rule development, maintaining vessel records and status, SOLAS/IMO implementation and fees and billing.

1983 - 1985

Area Principal Surveyor for Western Europe, Northern and Western Africa, AMERICAN BUREAU OF SHIPPING, London, United Kingdom. Responsible for all company activities and P & L in area, including 32 exclusive offices and 19 non-exclusive offices with approximately 80 Marine Engineers and Naval Architects.

1979 - 1983

Assistant Chief Surveyor - Operations, AMERICAN BUREAU OF SHIPPING at headquarters, responsible for vessel reporting, audio gauges and project management, including damage assessment of major casualties on site. In addition, responsible for overseeing, tracking and advising on repairs to classed offshore drilling units at the corporate level.

1975 - 1979

Principal Surveyor, Taiwan (R.O.C.), AMERICAN BUREAU OF SHIPPING.  
Responsible for country activities including registration, taxes, manning and field surveys. Staff of 11 engineers and 32 new buildings supervised over a 4 year period.

1973 - 1975

Assistant to Principal Surveyor for Japan.  
Responsible for surveys, fees and new construction activities in Japan.

1967 - 1973

Ship Surveyor in various ports including Philadelphia, New Orleans and Yokohama, Japan. Surveys on various types of vessels including Oil Tankers, Bulk Carriers, Container vessels, Reefer vessels, multi-purpose vessels, supply boats, barges and drilling units.

1962 - 1967

Ship's engineer for AMERICAN EXPORT-ISBRANDTSEN CO., in various ranks on various vessels. Received U.S. Coast Guard Chief Engineer's license while working for this company.

#### NOTABLE PROJECTS

Served variously as an advisor to the U.S. State Department and the Republic of Panama - Maritime Affairs. Delegations to the IMO Maritime Safety Committee from 1996 to present.

Council member of the International Association of Classification Societies (IACS) from 1991 to 1993, with the responsibility of promoting interaction and continuity of standards between major classification societies.

Developed full operating environmental and safety procedures for ship owners and ship management companies applicable to U.S. and foreign flag operations. Also conducted training, implementation and auditing of ship operation/management systems.

Developed rapid response program for casualty response for ABS.

Instituted quality, environmental and safety management programs for a major cruise line

and a U.S. tanker operator.

Expert/policy witness on the classification process and general survey requirements of commercial vessels in various U.S. and International courts.

Project management of a number of new building contracts including large Container vessels and Reefer vessels.

## EDUCATION AND PROFESSIONAL QUALIFICATIONS

Massachusetts Maritime Academy  
B.S. Marine and Electrical Engineering - 1962

A.M.A Management Course (4 weeks) - 1981

Marine Diesel Course - 1983

Harvard Business School (13 weeks)  
Program for Management Development - 1986

Crosby Quality College  
Executive Course - 1992  
M.M.A. - Qualified Individual Course – 1994 with annual refresher courses

Internal Auditor Training Course  
Lloyd's Register of Shipping – 1994 & 1999

Certified Qualified Individual for the Oil Pollution Act of 1990 and proven competent at the level of OSHA 24-Hour On-Scene Commander as per 29 CFR 1910.120(q) at Massachusetts Maritime Academy's Center for Marine Environmental Protection and Safety

Qualified as an Internal Auditor for ISO 9000 & 14001 Certification

### Technical Publications

“Incident Investigation and Root Cause Analysis” – October 1998

“ISO 9000 – Practical Consideration Towards Ship Operators/Classification” – May 1994

“Machinery Damage” at IUMI – September 1992

### Licenses



## **HENDRIK F. van HEMMEN**

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### PROFESSIONAL EXPERIENCE

1993 - Present

Vice President and Partner, MARTIN, OTTAWAY, van HEMMEN & DOLAN, INC.  
Areas of specialization include forensic engineering, vehicle design and operations, ship appraisals, structural surveys, naval architecture and project management.

1987 - 1993

Engineering and Marine Consultant, FRANCIS A. MARTIN AND OTTAWAY, INC.

1984 - 1987

Chief Engineer, JOHAN VALENTIJN, INC., a high technology design and engineering firm in Newport, R. I. Responsibilities included: Conception and implementation of various design projects ranging from maritime design to industrial design, coordination of out of office research projects, construction management, design and supervision of computer facilities. Functioned as Chief Engineer for the EAGLE 1987 America's Cup.

1982 - 1984

Ocean Engineer and Surveyor for the AMERICAN BUREAU OF SHIPPING at their headquarters in New York City. Analysis and certification of fixed offshore structures. Final technical machinery approvals of every vessel and rig approved by the Bureau during that period, and the computerization of the flow of plan approvals in the machinery department.

1979 - 1981

Work-Study employment with MAR, INC., an engineering company specializing in the solution of ocean-related problems.

Worked on various defense projects, including the design of high speed sonar array depressors, variety of towing tank tests, and the design of a JTIDS communications simulation computer program.

### NOTABLE PROJECTS

Testified as an expert witness on Naval Architectural and Engineering matters in arbitration, State and Federal Court on various occasions.

Analysis of numerous maritime accidents with regard to stability, loading, operational and structural issues.

Salvage Master on M.V. "**HUAL INGRITA**" grounding in 1990.

Consultant Naval Architect for Smit Americas in execution of salvage projects in the Western Hemisphere with responsibility for the design of salvage approach and methods in collisions, sinkings and groundings.

Analysis of the change in oil outflow in the "**EXXON VALDEZ**" incident if the vessel were to be fitted with a double bottom for plaintiff's counsel. Testimony on structural aspects during "**EXXON VALDEZ**" trial in June of 1994.

Chief Engineer for the EAGLE 1987 America's Cup Campaign; implementation, supervision and coordination of research projects involving approximately 30 scientists and engineers.

Consultant to Owners and Underwriters of some of the world's largest yachts with regard to complex damage issues.

Consultant to McDonnell Douglas Corporation on the application of their Computer Aided Design system to Naval Architecture.

Design and construction supervision of a wide variety of sailing and power yachts.

## EDUCATION AND PROFESSIONAL QUALIFICATIONS

Registered Professional Engineer in the State of New York (1989)  
License Number: 065588

Board Certified Diplomate in Forensic Engineering by NAFE, accredited by the Council of Engineering and Scientific Specialty Boards (1993)

Bachelor of Science degree in Aerospace and Ocean Engineering from the Virginia Polytechnic Institute and State University, Blacksburg, VA (1982)

CO-OP certificate for completing the University's work-study program at MAR, Inc., Rockville, MD (1982)

Harvard Business School OPM 29 (2000)

Certified Qualified Individual for the Oil Pollution Act of 1990 and proven competent at the level of OSHA 24-Hour On-Scene Commander as per 29 CFR 1910.120(q) at Massachusetts Maritime Academy's Center for Marine Environmental Protection and

Safety (1994)

Summer apprenticeship at the Boele-Bolnes shipyard in The Netherlands (1975)

College preparatory training in The Netherlands, senior year in high school in the United States (1977)

### Memberships

Senior Member, National Academy of Forensic Engineers

Senior Member, American Institute of Aeronautics and Astronautics

Member, Society of Naval Architects and Marine Engineers

New York Section Papers Committee Chairman 1992-1994

New York Section Executive Committee 1992-1994

1994 Ship Operations Symposium Steering Committee

Member Ship Repair and Conversion technical committee

Member Ad Hoc Panel #6 – Structural Response of Tankers to Collisions and Groundings

Member PE licensing committee

Member, Society of Marine Port Engineers of New York

Member, Human Factors and Ergonomics Society

Member, National Society of Professional Engineers

Member, American Boat and Yacht Council

Associate Member of the Association of Average Adjusters of the United States

Annual Subscriber to the British Association of Average Adjusters

Life Member, United States Naval Institute

### Awards

1983 Society of Naval Architects and Marine Engineers Student Paper Award.

1982 American Institute of Aeronautics and Astronautics/Soaring Society of America national sailplane student design award, Second Place.

### Technical Publications

"The Monoform Ship Concept: Design Principles and Preliminary Performance Characteristics", May 1982, for the Chesapeake Section of SNAME.

"Twelve Meter Design: State of the Art in 1986", April 1986, for the New York Metropolitan Section of SNAME. Published in the October 1986 issue of Marine Technology.

Contributor "Industrial Fire Hazards Handbook", chapter on shipyards.  
Publisher - National Fire Protection Association, 1989.

The Bulletin of the Association of Average Adjusters of the United States, Spring 1996, No. 10, "Remarks on Unrepaired Damage- Cause and Effect in Today's Market"

Author of chapter six "Commercial Vessel Issues" of Boat Accident Reconstruction and Litigation. Publisher - Lawyers & Judges Publishing Company, Inc., Tucson, AZ, 1996.

Various magazine articles and presentations regarding Computer Aided Design and yacht design, 1984-1988.

Guest speaker at the College of Insurance of New York City, Massachusetts Maritime and Virginia Tech on ship and yacht surveying, salvage and naval architecture.

"The Joint Field Survey Process" for the National Academy of Forensic Engineers. Published in the June 2000 Vol. XVII No. 1 issue of the Journal of the National Academy of Forensic Engineers.

Languages: English and Dutch, fluent  
French and German, working knowledge

Nationality: Dutch Citizen  
Permanent Resident in the United States

Clearance: Secret, while working for MAR, Inc.

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E-mail: rhemmen@martinottaway.com

## DAVID J. TANTRUM

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### PROFESSIONAL EXPERIENCE

1997 – Present

Partner, Martin, Ottaway, van Hemmen & Dolan, Inc.

1989 - 1997

Engineering and Marine Consultant, MARTIN, OTTAWAY, van HEMMEN & DOLAN, INC. Areas of specialization include forensic engineering, ship vetting surveys, mechanical systems and ship sales analysis, structural and mechanical system surveys, ship valuations and failure analysis.

Start-up management of satellite offices.

Manager of surveying services U.S. and worldwide.

1988

Engineer, PB. TECHNIK, Berlin, West Germany. Responsibilities included: Design, manufacture and installation of stainless steel and aluminum air conditioning ducting.

### NOTABLE PROJECTS

Testified as an expert witness on Engineering and ship valuation matters in Federal Court on various occasions.

Consultant to the United States Government for evaluation of ship construction proposals under the Title XI program.

Consultant to various Shipowners with regard to vessel acquisition and life extensions on older vessels.

Failure analysis of all types of diesel engines and their associated equipment.

Inspection of laid-up Ro/Ro vessels and their evaluation for reactivation.

Coordination, management and actual survey of a fleet of vessels for a consortium of purchasers of a container shipping company, including future maintenance cost developments.

Design and implementation of a fire control system and safety plan for an oil storage terminal.

## EDUCATION AND PROFESSIONAL QUALIFICATIONS

Certificate in Engineering Principles, Dublin Institute of Technology, Ballyfermot, 1985  
Bachelor of Science degree in Mechanical Engineering, Trinity College, Dublin, Ireland, 1989

Diploma of Mechanical Engineering, Bolton Street College of Technology, 1989

Metallurgical course at Materials Engineering Institute, 1993

Certified Qualified Individual for the Oil Pollution Act of 1990 and proven competent at the level of OSHA 24-Hour On-Scene Commander as per 29 CFR 1910.120(q) at Massachusetts Maritime Academy's Center for Marine Environmental Protection and Safety (1996)

### Memberships

Member of Institution of Engineers of Ireland  
Member of American Welding Society  
Associate Member of the Society of Naval Architects and Marine Engineers  
Associate Member of Association of Average Adjusters of the United States  
Subscriber to the British Association of Average Adjusters  
Member of the Society of Marine Port Engineers  
Member of the Society of Marine Consultants  
Member of NACE International  
Member ASM International

### Technical Publications

“VELOCITY & POSITION CONTROL of a PNEUMATIC CYLINDER using a Micro Computer” - Senior thesis, Bolton Street College

Author of paper, “The reasonable Cost of Repairs”, presented to the Association of Average Adjusters of the United States, October 1996

Languages: English, Gaelic, fluent  
German, conversational  
French, reading

Nationality: Irish/British dual citizenship  
Permanently residing in the United States

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## CHRIS HANGES

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### PROFESSIONAL EXPERIENCE

1975 - Present

Engineer and Marine Consultant, MARTIN, OTTAWAY, van HEMMEN & DOLAN, INC.  
Areas of specialization include ship appraisals, evaluations of charter parties, market analysis, risk assessment and condition surveys.

1973 - 1975

Marine Consultant operating out of Athens, Greece, specializing in evaluation of charter parties and market analysis.

1968 - 1972

Part owner of major Steamship company which owned and operated forty-three dry cargo and tanker vessels.

1953 - 1968

Assistant to General Manager of Foreign Steamship company operating dry-cargo and tanker vessels. Supervising general operations, chartering and claims.

Also functioned as New York representative of various West Coast Shipyards.

1952 - 1953

Co-owner of contracting firm building private homes in New Jersey.

1950 - 1952

UNITED STATES ARMY, Branch of Machine Records Unit (IBM), honorable discharge in rank of Sergeant (First Class).

### NOTABLE PROJECTS

Coordination of appraisals for the United States Government War Risk program for the last 15 years.

Development of appraisal methodologies.

Consultant to the United States Government for evaluation of ship construction proposals under the Title XI program.

Consultant to the Estate of a major ship owner (ship assets over U.S. \$300 million) regarding valuation of the fleet for inheritance tax purposes.

Development of partnership arrangements in major maritime investment ventures.

#### EDUCATION AND PROFESSIONAL QUALIFICATIONS

New York University, Bachelor of Science Degree in Engineering, June 1950

IBM machine supervisor course in 1951

Languages: English and Greek, fluent

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(201) 886-0782 (home)

## WAYNE P. THOMAS

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### PROFESSIONAL EXPERIENCE

1989 - Present

Engineer and surveyor with MARTIN, OTTAWAY, van HEMMEN & DOLAN, INC. Areas of specialization include ship surveying, auditing, claim formulation, electrical and electronic systems, failure, structural and cost analysis.

1987 - 1989

Contracted with C.L.D.A. INC. Engaged in transfer of engineering drawings to CAD systems.

1987

Employed as an assistant designer with JOHAN VALENTIJN INC. during college workshop period. Designed electrical installation for a 33-foot production powerboat. Engaged in production of detailed drawings of various yacht fittings and systems such as electrical wire layout, keel joints, window treatments, rudder gudgeon and pintles. Carried out hydrodynamic calculations for winged keels. Given a concept for a new design, carried out market research to determine demand, price structure, and desired features, then produced preliminary sketches for a detailed proposal.

1985

Employed as a research assistant while working directly for a scientist engaged in developing highly efficient nickel/cadmium and amorphous silica solar cells, at BRITISH PETROLEUM INTERNATIONAL RESEARCH, INC.

Carried out various tests using state of the art computers and measuring equipment. Designed and developed various measuring devices. Modified existing software programs to meet particular requirements for research projects. Produced detailed reports on data collected.

1978 - 1984

Calibration lab supervisor and repair technician in the UNITED STATES NAVY. Responsible for calibration, testing, troubleshooting, repair and preventative maintenance on various avionic test equipment and benches, such as tactical air navigation, fire control radar, autopilot and gyrocompass test sets, instrument navigation and identification friend or foe. Six year active duty in aviation intermediate maintenance department, three years

of which were served on the U.S.S. "**CORAL SEA**", CV-43. Honorable discharge.

#### NOTABLE PROJECTS

Assisting in the internal auditing of a major US tug and barge operator for compliance to the International Safety Management Code.

Failure analysis of shipboard electrical control and power systems.

Structural analysis of marine components in unusual loading conditions and analysis of numerous ship allisions with berths and bridges.

Hydrostatic calculations of vessels in extreme flooding scenarios.

Failure analysis of large, medium speed diesel engines as installed on ships for generator prime movers.

Development of Condition Survey procedures for a major P & I Club.

#### EDUCATION AND PROFESSIONAL QUALIFICATIONS

American Welding Society, AWS educational program for Welding Inspection seminar (March 1999)

Certified Welding Inspector in compliance with the American Welding Society requirements of Section 6.1 of the AWS Standard for Qualification and Certification of Welding Inspectors QCI-96 – Certificate No. 99040531

Certified Qualified Individual for the Oil Pollution Act of 1990 and proven competent at the level of OSHA 24-Hour On-Scene Commander as per 29 CFR 1910.120(q) at Massachusetts Maritime Academy's Center for Marine Environmental Protection and Safety (1998)

Lloyd's Register of Shipping International Safety Management Code Workshop and Internal Safety Auditing Course, Miami, FL (1996)

Southampton Institute of Higher Education, Southampton, England (1985-1988)  
Completed three year course in Yacht and Boat design, with emphasis on naval architecture, tank testing, computer aided design, marine structures, materials science, technical drawing, and fluid dynamics

U.S. Navy Aviation Electronics Technician School, Millington, TN (1978 - 1979)

U.S. Navy Calibration Technician School, San Diego, CA (1979-1980)

U.S. Navy Micro-Miniature Repair School, Moffett Field, CA (1982)

High School diploma, 1978, Parma, OH

### Memberships

Associate Member Society of Naval Architects and Marine Engineers  
Member of the American Welding Society

### Awards

U.S. Navy Achievement Medal for performance during extended deployment and various service medals.

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## **PIERCE N. POWER**

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### PROFESSIONAL EXPERIENCE

1994 - Present

Engineer and Surveyor with MARTIN, OTTAWAY, van HEMMEN & DOLAN, INC. Areas of specialization include forensic engineering, mechanical systems, structural and mechanical system survey and overhaul and failure analysis.

1986 - 1991

Engineering Officer in the Irish Naval Service. Responsibilities included operations management, training of personnel, maintenance and planning for marine powerplants of 3,500 to 14,200 BHP, including annual maintenance budgets and dry-dock specifications. Retired at the rank of Sub/Lieutenant in November 1991. Currently on First Line Reserve Listing.

### NOTABLE PROJECTS

"Technologist of the Year" award for 1994 by the Instrumentation Society of America (Ireland Section) for "computerized planned maintenance system for use on Irish Naval Vessels".

Investigation and analysis of the sinking and total loss of a 82,000 Gross Tons OBO.

Management and coordination of a full mechanical overhaul of an ocean-going passenger vessel, including classification and regulatory surveys.

Analysis of failures in various engine and machinery components.

Pre entry condition inspections of vessels into the following P & I Clubs:

West of England Ship Owners Mutual Insurance Association (Luxembourg)  
Thomas Miller UK P & I (Bermuda), Standard P&I Club

### EDUCATION AND PROFESSIONAL QUALIFICATIONS

Bachelor of Science degree in Mechanical Engineering, University of Dublin, Trinity College, Dublin, Ireland, 1994

Diploma of Mechanical Engineering, Bolton Street College of Technology, Dublin, Ireland, 1994

Class 4 Certificate of Competency (Engineer Officer) issued by the Department of the Marine, Ireland, 1993

Diploma in Marine and Plant Engineering from Regional Technical College, Cork, Ireland, 1990

Merchant Navy Firefighting Course, 1992

Basic Sea Survival Course, 1993

Professional Writing Course at the New York University, New York, 1997

Certified Qualified Individual for the Oil Pollution Act of 1990 and proven competent at the level of OSHA 24-Hour On-Scene Commander as per 29 CFR 1910.120(q) at Massachusetts Maritime Academy's Center for Marine Environmental Protection and Safety, 1998; attended two-day annual refresher courses each subsequent year

Certified Welding Inspector in compliance with the American Welding Society requirements of Section 6.1 of the AWS Standard for Qualification and Certification of Welding Inspectors QCI-96 – Certificate No. 99040501, 1999

American Welding Society, AWS educational program for Welding Inspection seminar, March 1999

Master in Arts, University of Dublin, Trinity College, Dublin, Ireland, 2000

Postharvest Technology Short Course, University Extension, University of California, Davis, June 2001

Excellence in Report Writing and The Courtroom Skills Training Courses given by The Royal Institution of Naval Architects in association with Bond Solon, London, UK, 2001

European Federation of National Engineering Associations, Eur. Ing., Registration No. 26419, 2001

### Memberships

Chartered Member of the Institution of Engineers of Ireland

Chartered Member of the Institute of Marine Engineers

Member of the Institution of Mechanical Engineers

Member of the Society of Marine Port Engineers

Member of the American Society of Heating, Refrigerating and Air Conditioning Engineers, Inc.

Member of the American Welding Society

Member of the Society of Naval Architects and Marine Engineers

Associate Member of Association of Average Adjusters of the United States

Technical Publications

"COMPUTERIZED PLANNED MAINTENANCE PACKAGE" developed for Irish Naval Service as part of Senior Thesis, Trinity College, Bolton Street College of Technology

Author of paper, "CHASING THE PAPER TRAIL; DISCOVERY FOR CLAIM RECOVERY," presented at the Recovery Forum Speech (1997)

Author of paper, "MARINE INSURANCE CLAIMS IN THE COMING MILLENNIUM", presented to the Association of Average Adjusters of the United States at the Annual Seminar on October 1, 1997

Languages: English, Gaelic, fluent  
French, reading and conversation

Nationality: Irish citizenship  
Permanently residing in the United States

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## **JASON F. FERNANDES**

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### **PROFESSIONAL EXPERIENCE**

1997 – Present

Manager, Principal Surveyor and Marine Consultant, MARTIN, OTTAWAY, van HEMMEN & DOLAN, New Orleans Office. Branch office of MOvH&D engaged in surveying, engineering, and marine consulting activities in the Gulf and Caribbean area.

1996 - 1997

Engineer and Surveyor with MARTIN, OTTAWAY, van HEMMEN & DOLAN, INC. Areas of specialization include vessel vetting and condition surveys, forensic engineering, mechanical engineering, structural and mechanical system surveys, and failure analysis.

Liquid and solid cargoes damage inspections, follow-up surveys, loss mitigation and verification, cargo outturn and pre-shipment inspections, dock damage, and personal injury investigations carried out for owners, charterers and their P&I underwriters.

1991 - 1996

Marine Surveyor, Associated Independent Marine Surveyors, Inc. (AIMS, Inc.), Jersey City, NJ. Responsibilities included: Inspection of hull and machinery damages, supervision of repairs and verification of costs, recommendations to prevent recurrence, vessel vetting and condition inspections.

Cargo damage inspections and loss verification, cargo outturn inspections, pre-shipment inspections in the field of commodities, manufactured products, arts and antiques.

1987 - 1990

First Asst. Engineer, Singa Ship Management, Singapore. Responsibilities included day-to-day management of engine room operations and maintenance; supervised multinational crew.

1980 - 1986

Junior Engineer to Second Asst. Engineer, Tradax Gestion S. A., Switzerland. Responsibilities included operations and maintenance of specific machinery.

## NOTABLE PROJECTS

Following instructions from European Marine Underwriters, researched and made recommendations to South American liner refrigerated container carrier during 1991-1992, that were successful in preventing recurring generator break-downs.

Participated in successful evacuation of M.V. “**NORMAN ATLANTIC**”, loaded with naphtha, and destroyed in bombing attack during the Iran - Iraq war in December 1987.

## EDUCATION AND PROFESSIONAL QUALIFICATIONS

Degree: MS in Maritime Management  
College: Maine Maritime Academy, Castine, Maine; graduated 1991  
Electives: Marine Insurance and Maritime Law, Intermodal Transportation

License: Chief Engineer’s Certificate of Competency (Motor).  
Issued by the Government of the United Kingdom, 1986.

Diploma: Mechanical Engineering  
College: Central Polytechnic, Madras, India; graduated 1978.  
Elective: Refrigeration and Air Conditioning.

Evening college studies in Mechanical Engineering.

Apprenticeship: Marine Engineering, Binny Engineering Works,  
Madras, India, 1974-1979.

Certified Welding Inspector in compliance with the American Welding Society requirements.

Certified Qualified Individual for the Oil Pollution Act of 1990 and proven competent at the level of OSHA-24-Hour On-Scene Commander.

Certified by SDT-MacGregor, Belgium to test hatch covers using SHERLOG ultrasonic equipment.

## Memberships

Member, Society of Naval Architects and Marine Engineers  
Member, Society of Marine Port Engineers  
Member, American Welding Society  
Member, American Society of Civil Engineers

Languages

English, Hindi, Konkani

Nationality

United States Citizen

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# MAX HARDBERGER

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## PROFESSIONAL EXPERIENCE

1998 - Present

Marine surveyor and consultant, MARTIN, OTTAWAY, van HEMMEN & DOLAN, New Orleans office, involved in navigational, operational, cargo and damage issues.

1991-1998

Marine surveyor and consultant, Carifreight, Ltd, New Orleans, La. Areas of specialization included condition and valuation surveys, statutory (flag state) surveys, collision and allision causation analysis, marine personal injury investigation, and offshore oilfield accident investigation.

Relief captain onboard ocean cargo vessels M/V "FALCON" for two months (1993) and M/V "SHELBY STAR" for two months (1994).

1989-1991

Port captain, Morgan Price and Co., Miami, Fl. Responsibilities included on- and off-hire surveys and bunker surveys of chartered ships, loading and discharging supervision, husbandry of owned vessels, and voyage charter supervision.

1987-1989

Master of ocean cargo vessels in the Caribbean general-cargo trade.

1984-1987

Chief mate of ocean cargo vessels in the Caribbean general-cargo trade.

1978-1984

Mud engineer in the U.S. offshore and Latin American exploration and production oilfields.

1974-1978

Deckhand, mate, and captain of oilfield supply vessels in the Gulf of Mexico

## NOTABLE PROJECTS

Master in charge of all operational and navigational aspects of Ocean Going vessels.

Supervised the crating, loading, and stowage of the US Steel Fairless (Pa.) steel mill--25,000 MT of machinery--onboard the MV Everhappy for shipment to Shanghai, in 1993.

During 1992-1994, supervised the loading of over 15,000 tons of coffee in Buenaventura, Colombia for various shippers.

## EDUCATION AND PROFESSIONAL QUALIFICATIONS

Degrees: JD, Northwestern California University, 1997  
MFA, University of Iowa, in English, 1972  
BA, University of New Orleans, in English, 1969

Licenses: Panamanian Master's License, Unlimited Tonnage, Any Oceans  
FAA commercial, instrument, multiengine, and flight instructor licenses

Certification: SCUBA Open-Water Certification  
National Association of Marine Surveyors, Certified Marine Surveyor

### Memberships:

National Association of Marine Surveyors  
California Bar Association  
American Bar Association

### Technical Publications

In excess of thirty articles for "Workboat" Magazine.  
"The Care and Prevention of Stowaways", Maritime Security Handbook, U.S. Dept. of Transportation (1996)

Languages: English (native)  
Spanish (proficient)  
French (work)

Nationality: United States

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New Orleans, LA 70130

## **ROBERT D. BOWIE**

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### PROFESSIONAL EXPERIENCE

2000 - Present

Associate Consultant for MARTIN, OTTAWAY, VAN HEMMEN & DOLAN, INC., a full range marine consulting firm with offices in Red Bank, New Jersey, New Orleans, Louisiana and Rotterdam, Netherlands.

1991 - 2000

AMERICAN BUREAU OF SHIPPING, Americas Houston with following responsibilities as detailed below:

1997 - 2000

Manager-Offshore Technology and Business Development

Market ABS Offshore services and assist with ABS Offshore Technology Development. Visit clients, attend trade shows and make presentations at various seminars. Attend ISO, IACS, and other Offshore Industry meetings on behalf of ABS. Project Manager for Rowan Gorilla V Jack-up building at Le Tourneau Shipyard, Vicksburg, Mississippi. Project Manager Cantarell Offshore Project in Mexico.

1993 - 1997

Chief Engineer – Offshore Engineering Department

Advise staff and clients regarding ABS, IMO, UK HSE, USCG and NMD requirements for MODUs and FPSOs. Represent ABS at IACS, UK HSE, USCG, etc. Coordinate cost estimates and Rule development for MODUs and FPSOs. Marketing visits to clients. Project Manager for Enserch Garden Banks FPF, ORXY SPAR FPF and all ABS new buildings and major modifications of MODUs.

1991 - 1993

Chief MODU Section – Offshore Engineering Department

Manage MODU Structures and Stability Sections. Advise staff and clients regarding ABS, IMO, UK HSE, USCG and NMD requirements for MODUs. Coordinate cost estimates and Rule development for MODUs. Represent ABS at IACS, UK HSE, USCG, technical seminars and trade shows on offshore. Project Manager for Santa Fe Galaxy I and II Jack-up Units Built in Singapore.

1988 - 1991

AMERICAN BUREAU OF SHIPPING, Paramus, New Jersey  
Assistant Chief Engineer – Offshore Engineering Division  
Responsible for 12 structural engineers and naval architects reviewing MODUs for ABS Class, IMO, USCG, UK HSE, NMD and CCG certification. Advise staff and clients regarding ABS Class, IMO, USCG, UK HSE, NMD and CCG requirements. Carry out and coordinate cost estimates for future contracts. Represent ABS at IACS, UK HSE, technical seminars etc.

1980 - 1988

AMERICAN BUREAU OF SHIPPING, New York/New Jersey  
Principal Surveyor – Offshore Engineering Division  
Supervise review of structural design drawings, design calculations and stress analyses of MODUs for ABS class and certification by various administrations. Visit and meet with clients regarding ABS Class of all types of MODUs such as jack-ups, semi-submersibles, arctic caissons (steel and concrete), drill ships and barges. Represent ABS at USCG, UK HSE, API, and trade shows. Assist in the investigation of the sinking of the "OCEAN RANGER". Field surveyor in Texas Shipyard to deliver jack-up drilling unit.

1978 - 1980

AMERICAN BUREAU OF SHIPPING, New York  
Senior Surveyor – Technical Division  
Supervise engineers reviewing structural design drawings, design calculations and stress analyses of MODUs for ABS Class and certification by various administrations.

1977 - 1978

AMERICAN BUREAU OF SHIPPING, Buenos Aires  
Senior Surveyor – Technical Division  
Opened new technical office. Review of structural design drawings of tankers, bulk carriers, tugs, yachts etc building in Argentina. Meet with clients regarding ABS Classed ships. Field surveys of ABS Classed ships.

1973 - 1978

AMERICAN BUREAU OF SHIPPING, Rio de Janeiro  
Senior Surveyor – Technical Division  
In charge of technical office in Rio de Janeiro. Review of hull structural design drawings for ABS Classed ships building in South America (i.e. tankers, bulk carriers, cargo vessels and tugs). Meet with clients regarding ABS Classed ships.

1969 - 1973

AMERICAN BUREAU OF SHIPPING, London  
Senior Surveyor – Technical Division  
Review of hull structural design drawings of ABS Classed ships building in Western Europe.

1966 - 1969

AMERICAN BUREAU OF SHIPPING, London  
Surveyor – Technical Division  
Review of hull structural design drawings of ABS Classed ships building in Western Europe.

1964 - 1966

YARROW SHIPYARD, Glasgow, Scotland  
Naval Architect  
Design of naval vessels and stern trawlers.

1960 - 1964

JOHN BROWN SHIPYARD, Clydebank, Scotland  
Naval Architect  
Ship design office and towing tank. Design of passenger and cargo vessels.

## NOTABLE PROJECTS

ABS Project Manager for large MODUs and Floating Production New Building and conversion projects

Assisted in the investigation of the sinking of semi-submersible "Ocean Ranger"

As member of a NOSAC Work Group, assisted in writing USCG "Ocean Tow Requirements of Jack-up Drilling Units"

Member of UK HSE Work Groups on Safety of Jack-up Afloat

Chairman IACS AHG/DU 1997-2000

Technical Secretary SNAME OC-7 Panel

Member ISO/TC67/SC7/WG7 Site Specific Criteria for Jack-up Units

Technical Representative for ABS in a number of legal cases

## EDUCATION AND PROFESSIONAL QUALIFICATIONS

Royal College of Science and Technology, Glasgow  
HNS with endorsements, Naval Architecture - 1961

ABS Management Seminar - 1984

ABS Management Training Course  
Bergen County College - 1990

Video Course on Presentation Skills  
BK&A CA - 1991

Internal Auditor Course – 1993

Effective Meeting Workshop - 1993

Technical Publications

R.D. Bowie "Classification Experience with FPSOs", MMS 1999 Information Transfer Meeting, New Orleans, LA 1999

D. Stock, P. Geiger Jr., P. Chakrabarti, R.D. Bowie "Calculation Methodology – A Comparative Implementation of SNAME Site Specific Assessment of Jack-up Units", London City University, 1999

Bowie, R.D. "The Extension of Practical International Experiences to the Safety of FPSOs for the Gulf of Mexico", FPSO Tech '98, Houston, TX

Bowie, R.D. "IMO/IACS Design and Survey Requirements", E&P Forum FPSO/FSU Workshop, London, England, 1998

J. Stiff, R.D. Bowie, B.P.M. Sharples "Jack-up Classification Past Present and Future", London City University, 1997

Bowie, R.D. and Richardson, K.L. "Classification and Certification Requirements for Floating Production Systems", OTC 1995

Bowie, R.D., Tan, P.L. and Corcoran, G.C. "Converting Semisubmersible Drilling Units to Floating Production" IADC/SPE 1994

Bowie, R.D. and Breuer, J.A. "Wind Load Regulations in the Context of MODU Stability" USCG Vessel Stability, Symposium 1993

Bowie, Robert D. "Mobile Offshore Drilling Units – Plan Review and Classification", SNAME Spring Meeting (STAR) Symposium 1984

Memberships:

- Registered Chartered Engineer – UK (C.Eng.)
- Fellow RINA
- Member SNAME

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## DONALD E. LINDQUIST

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### PROFESSIONAL EXPERIENCE

1996 - Present

Consulting Engineer and Surveyor associated with MARTIN, OTTAWAY, van HEMMEN & DOLAN, INC. Areas of specialization including ship vetting surveys, forensic engineering, mechanical systems, structural mechanical system survey, and quality management systems. Expertise in both staff and line engineering management, planning, coordination and economic analysis of major shipbuilding and ship repair activities.

1995 - Present

Formed Link Marine Services, LLC, providing expertise to the marine industry. Specializing in vessel condition and vetting inspections, damage surveys, review of survey status, shipyard specification preparations, ISO 9000 projects, and shipyard overhaul project management.

1980 - 1995

Manager maintenance repair and engineering, Sun Transport Inc. (A division of Sun Oil Co.), Marcus Hook, PA. Direct control and planning of all shipyard overhauls, new construction, emergency repairs, voyage repairs, preventative maintenance and technical engineering associated with the Sun Company's fleet of ocean going vessels, including budgets and negotiations of all related contracts.

1979 - 1980

Manager of Engineering, Interocean Management Corporation, Philadelphia, PA. Responsible for, and in control of, all engineering functions of a fleet consisting of twenty-two vessels in worldwide service. Responsibilities included budgets, vessel maintenance, shipyard specification preparation, shipyard overhauls, planned maintenance systems, retrofits, approval of all machinery oriented purchasing, and negotiations for finalizing all major repair expenditures.

1978 - 1979

Engineering Superintendent, International Ocean Transport, Philadelphia, PA.

1977 - 1978

Port Engineer, International Ocean Transport, Philadelphia, PA.

1975 - 1977

International Ocean Transport, sailed as first and Chief Engineer aboard U.S. Flag VLCC's.

1970 - 1975

Cities Service Tankers, sailed as Third, Second, First, and Chief Engineer on an assortment of company-owned tankers involved in coastal and worldwide trade.

1967 - 1970

American Export Isbrandtsen Lines, sailed as Third and Second Engineer aboard freighters, container ships, and passenger vessels. Entered N. S. "SAVANNAH" training course and sailed on N. S. "SAVANNAH" as Nuclear Reactor Operator Trainee.

### NOTABLE PROJECTS

Manager in charge of completely rebuilding an engine room flooded with salt water. This project cost \$35,000,000.00. Co-authored paper presented to SNAME on this subject.

Manager and assumed total responsibility of completely renewing the inner bottom of Double Hull Tanker. This project involved six months planning and took four months to complete.

Manager in charge of new construction of specialty barge built for Sun's Puerto Rico Trade.

Responsible for the authorship of The Quality Manual, implementing the Internal Auditing System and the company wide implementation of the Quality Management System as required to meet the ISO 9002 Quality Standard.

### EDUCATION AND PROFESSIONAL QUALIFICATIONS

1967 - B. S. Marine and Electrical Engineering - Massachusetts Maritime Academy.  
Chief Engineer Steam Unlimited Horsepower, and Third Assistant Engineer Diesel Unlimited Horsepower

1992 - Columbia Quality Management International and passed Assessor/Lead Auditor Training Course for ISO 9000

1991 - Philip B. Crosby Quality Improvement Process Management College

1990 - International Loss Control Institute for Risk Assessment graduating as a Certified Safety Auditor

1987 - Penn State Executive Program - Engineer/Scientist as a Manager Program

1985 - Finances for non-financial Managers - Sun Co.

1984 - Executive Workshop and Looking Glass - Sun Co.

1983 - Graduated Sun Company Professional Management Program

1982 - Sulzer Engine Maintenance and Engine Control Systems - Sulzer Brothers, Winterthur, Switzerland

1979 - Middle Management Course - AMA

1970 - Assoc. Degree - Nuclear Reactor Engineering - N. S. "SAVANNAH" training program -  
U.S. Merchant Marine Academy

Memberships

Member American Bureau of Shipping Special Committee on Ship Operations  
Member Society of Naval Architects and Marine Engineers, Presently Chairman and on the  
Executive Committee of Philadelphia Chapter  
Member Society of Marine Port Engineers of New York  
Honorable Discharge U.S. Naval Reserve as Lieutenant

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## NIEK C. F. VAN SAS

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### PROFESSIONAL EXPERIENCE

1997 – Present

Partner, J.C. van Sas & Associates B.V., marine surveyors and consultants.

1995 – 1997

Senior surveyor/marine consultant with J.C. van Sas & Associates B.V. Areas of specialization include cargo surveys, liability surveys in the field of legal, contractual and product liabilities, consultancy in the field of claims prevention; for example, chemicals and ferrous and non ferrous products; surveys conducted worldwide.

1990 – 1995

Surveyor with J.C. van Sas & Associates B.V.

### NOTABLE PROJECTS

Writing ISO-quality manual for J.C. van Sas & Associates B.V.; carrying out internal auditing for compliance to the ISO Certification Standards.

Appointed by a Dutch District Court as Court Surveyor.

Analysis of failures in various shipments of goods by sea.

### EDUCATION AND PROFESSIONAL QUALIFICATIONS

Completed two years of University training regarding Dutch law.

Completed training to become registered surveyor for the Dutch Institute of Registered Surveyors.

Currently enrolled in the A.C.I.I. program.

Completed Qualified Individual training at Massachusetts Maritime Academy in September 1997, including OSHA 29CFR1910.120 Certification.

#### Memberships

Member of the Dutch Institute of Registered Surveyors  
Member of the Dutch Association of Marine Cargo Surveyors  
Associate member of the National Association of Marine Surveyors  
Member of Clubs Oils and Fats in The Netherlands  
Member of Rotterdamse Beurs Transport Sociëteit

Technical Publications

Interview in Quintessence, professional paper for Risk Managers in The Netherlands and Belgium.

Languages: Dutch, English, fluent  
German, reading and conversation  
French, reading

Nationality: Dutch citizen

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Home Phone: 011 31 10 412 5858

## GERTOM C. DE VRIES

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### PROFESSIONAL EXPERIENCE

1998 – Present

Senior surveyor and consultant at J.C. van Sas & Associates B.V. in all aspects of cargo problems. Main experiences with machinery, liquid cargoes (chemicals and minerals) break bulk and dry bulk. Claim handling and loss adjusting in the field of liability. Surveys conducted worldwide.

1994 – 1998

Surveyor at Expertise Bureau Binnendijk-Bree B.V. at Rotterdam; working experience as described above.

1991 – 1994

Cargo inspector with ITS Caleb Brett and Inspectorate in the field of dry bulk, mineral oils (crude, as well as products), chemicals in all varieties, break bulk, etc. Quality assessments (i.e., analyses on chemicals), as well as quantity assessments (i.e., draft surveys, ullages soundings) were carried out. During this period assistant manager at Daniel C. Griffith (part of Inspectorate).

1986 – 1991

Mate on various types and sizes of vessels, mainly break bulk, active worldwide. During this period extensive experience was acquired in the handling of cargoes, as well as carrying out all kind of engineering jobs and maintenance.

### EDUCATION AND PROFESSIONAL QUALIFICATIONS

Maritime Academy at Rotterdam

Nautical part: graduated B.Sc. 1985

Engineer part: graduated 1986

Completed training to become registered surveyor for the Dutch Institute of Registered Surveyors.

#### Memberships

Associate member of Dutch Association of Marine Cargo Surveyors

Member of the Rotterdamse Beurs Transport Sociëteit

Languages: Dutch, English, fluent  
German, reading and conversation  
French, reading

Nationality: Dutch citizen

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## SYDNEY COOK

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### PROFESSIONAL EXPERIENCE

1988 - Present

Surveyor associated with MARTIN, OTTAWAY, van HEMMEN & DOLAN, INC. based in Fort Lauderdale/ Miami, FL area.

1984 - 1988

Surveyor, FRANCIS A. MARTIN AND OTTAWAY, INC. Hull and Machinery surveys on behalf of Owners, Underwriters, etc. covering all phases of maintenance, classification and damage surveys. Surveys of all types of machinery, low and medium speed diesel engines, boilers, turbines, etc. Sales and purchase surveys. Surveys of special purpose ships, dry docks, floating docks, slipways etc. Material condition surveys of floating dry docks in connection with the certification process of commercial dry docks, which are utilized by the U.S. Navy. Consultant to Average Adjusters. Expert witness for litigation and arbitration proceedings. Actively engaged as Maritime Arbitrator.

1976 - 1984

Vice President, UNION MARINE INC. New York, N.Y., consulting engineers, marine surveyors, and naval architects. Hull and Machinery Surveys on behalf of Owners and Underwriters. Expert Witness in Litigation and Arbitrations. Surveys of all types of Diesel Machinery (Low and Medium Speed), Steam Turbines, Boilers, etc. Preparing specifications and supervising installation of Inert Gas Systems (I.G.S.) and Crude Oil Washing Systems (C.O.W.) to comply with MARPOL regulations on tankers, VLCC'S & ULCC'S.

1954 - 1984

Vice President and Technical Director of P.D. MARCHESSINI & CO. (New York), Inc. Manager, Operation Department, Hull and Machinery Claims Department, and P & I Club Claims. Marine Superintendent in charge of repairs, maintenance and new construction, for a fleet consisting of:

- Two Motor Bulk Carriers, 18,000 tons each
- One Motor Tanker, 24,000 tons
- One Turbine Tanker, 23,000 tons
- Eight Turbine Cargo Liners, 13,000 tons each
- Four Motor Cargo Vessels, 13,000 tons each

1950 - 1954

Partner in S.A. Magoulas & Co., London, England. Consulting Engineers, Marine Surveyors and Naval Architects. Representing owners for new construction, conversions and all types of repairs to hull and machinery. Superintendent for Marchessini Lines, New York. Supervised construction of various cargo vessels in Japan. Maintenance and damage surveys to diesel engines of all types, boilers, turbines, etc. Sales and purchase surveys.

1946 - 1950

Surveyor with Albert Ostens, Ltd., Middlesborough, England - Consulting Engineers, Marine Surveyors and Naval Architects. Representing owners for voyage repairs, classification repairs and damage repairs to hull and machinery. Non-exclusive surveyors to Bureau Veritas, British Corporation (now incorporated with Lloyds Register), and the American Bureau of Shipping. Surveyor to Salvage Association of London, United States Salvage Association and P & I Clubs.

1939 - 1946

Held various positions, in the British Merchant Marine including three years as Chief Engineer of steam and motor vessels.

### EDUCATION AND PROFESSIONAL QUALIFICATIONS

Chief Engineer Steam and Motor License (British). Hull Technical College, England London University, England (1930 - 1939)

#### Memberships

Chartered Engineer

Member, Institution of Mechanical Engineers (U.K.)

Member, Royal Institution of Naval Architects (U.K.)

Fellow, Institution of Marine Engineers (U.K.)

Fellow, Consulting Marine Engineers and Ship Surveyors Society (U.K.)

Resident Associate Member, Association of Average Adjusters of United States

Member, The Society of Marine Port Engineers, New York, N.Y.

Member, Society of Maritime Arbitrators, New York, N.Y.

Member of The Society of Marine Consultants (U.S.A.)

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## CLIFFORD JONES

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### PROFESSIONAL EXPERIENCE:

1991 - Present

Consultant to MARTIN, OTTAWAY & van HEMMEN, INC. specializing in shipyard operations and facility management, shipyard equipment procurement and disposal, and shipyard regulatory requirements.

1987 - 1991

Engaged on a contract basis for TODD SHIPYARDS CORPORATION's bankruptcy attorneys, auditors, creditors and others during Chapter 11 reorganization. Principal representative in negotiating and pursuing to conclusion termination of leases and disposal of assets of 5 shipyards.

1979 - 1987

Vice President, TODD SHIPYARDS CORPORATION. In charge of negotiating purchase, sale and/or lease of properties and operations. Project leader for new construction program negotiations. Formulated corporate policy for environmental and safety programs and worker's compensation. Reviewed and modified the operating business plan to achieve objectives for fixed asset management and corporate strategic planning. In charge of property management at seven locations including office, warehouse, industrial/ commercial and yard production areas.

Director and Vice President of wholly-owned captive insurance company: ROBINS MARINE. Implemented policies and procedures to achieve significant savings in insurance premiums.

1977 - 1979

Director of Resources, TODD SHIPYARDS CORPORATION. Direction of Corporate Facilities Department activities; Safety, and Human Resources Department.

1973 - 1977

Manager of Facilities, TODD SHIPYARDS CORPORATION. Chief Engineer, and Manager in charge of Environmental Control and Corporate Safety Programs.

1972 - 1973

Assistant Chief Engineer, TODD SHIPYARDS CORPORATION. Overall responsibility for repair, maintenance and additions to the seven operating shipyards of the corporation. Principal team member for the development of proposals to the U.S. Navy.

1968 - 1972

Facilities Engineer, TODD SHIPYARDS CORPORATION. Shipyard rearrangements, contract management and subsequent purchase of government-owned facilities at five shipyard locations. Shipyard market and facility utilization and modernization studies.

1965 - 1967

Special Projects Assignments, TODD SHIPYARDS CORPORATION. Included proposal effort for FDL and DX Programs with specific responsibility for shipyard layout, production processes and facility trade-off studies.

1946 - 1962

Engineering Staff and Middle Management Positions, TODD SHIPYARDS CORPORATION. Draftsman, Field Inspector, Shipyard Plant Engineer.

1944 - 1946

U.S. Navy.

#### NOTABLE PROJECTS:

Planned, executed and coordinated \$180 million expansion of corporate facilities to construct new ships, repair and modify naval and commercial vessels at seven locations, including design and construction of dry docks from 4,000 tons to 50,000 tons lifting capacity.

Senior member of the Executive Committee responsible for the Retirement System. System value increased from \$30 million to \$68 million.

Reviewed and evaluated corporate acquisition candidates, determined manufacturing capabilities, market share, foreign competitive influences, condition and current value of facilities. Result: TODD acquired the ARO Corporation of Bryan, Ohio for \$94 million which resulted in \$12-14 million net profit per year.

Execution of lease/purchase agreement to offset negative cash flow and ultimately producing a \$2.2 million gain on Book Value.

Developed documentation and appeared as an expert witness to support a reduction in realty and personal property assessed valuations resulting in anticipated annual savings exceeding \$250,000.

Established a profitable new business offering multiple services to industrial, marine, petrochemical and other markets for calibration equipment testing, electronic repair, customized label engraving and photo-etching.

#### EDUCATION:

New York University - 1949-1951

Mechanics Institute, New York - 1956-1959

Rutgers University, Management Courses

American Management Association courses

PROFESSIONAL MEMBERSHIPS:

Institute of Certified Engineering Technicians  
American Management Association  
Society of Naval Architects and Marine Engineers  
General Society of Mechanics and Tradesmen

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## JOHANNES P. KALKMAN

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### PROFESSIONAL EXPERIENCE

1997 – Present

Consultant Engineer and Surveyor, MARTIN & OTTAWAY HOLLAND, B.V., Rotterdam, the Netherlands. Specializing in ship construction coordination and supervision, vessel surveying and vessel operations.

1977 – 1997

Manager, The Netherlands, AMERICAN BUREAU OF SHIPPING. Responsible for all survey activities carried out by surveyors from the Rotterdam office, including new-building of vessels, off-shore structures drilling rigs, condition surveys, damage-surveys, evaluation-surveys and all running-surveys.

Responsible for administration, accounts and liaison with Dutch authorities, Re: Safety Regulations, etc. Rotterdam office includes; 10 marine surveyors and four administrative employees.

Responsible for implementation of SOLAS and MARPOL requirements, marketing in the Netherlands, as well as technical coordination during design phase and plan approval.

1972 – 1977

Surveyor, AMERICAN BUREAU OF SHIPPING, stationed at Curacao, Netherlands Antilles. Responsible for all survey activities in the Caribbean area, such as drydock, damage, safety, evaluation, structural, special surveys, etc. including thickness measurements.

Surveyor to U.S. Salvage, carrying out damage-surveys including invoice approval. The office was run by myself with one administrative employee.

1968 – 1972

Surveyor, AMERICAN BUREAU OF SHIPPING, stationed at the Rotterdam office. Survey work included; New-building of V.L.C.C.'s, off-shore structures, damage-surveys, condition-surveys, safety and MARPOL surveys, Special-surveys, as well as material testing, etc.

1963 – 1968

Assistant Manager, repair department of the ROYAL SCHELDE COMPANY, Flushing Netherlands. Coordination of hull and engine-repairs of sea-going vessels, both afloat and in drydock. Responsible for technical coordination, as well as progress of repairs. Rendered engineering assistance to new-building department of the yard.

1958 – 1963

Ship's engineer, VAN OMMEREN SHIPPING COMPANY, sailing on tankers and bulkcarriers as 3rd engineer, 2nd engineer and Chief Engineer. Experience on both steam and diesel engines.

1954 – 1958

Ship's engineer, ROYAL INTEROCEAN LINES. Sailing on passenger vessels, cargo and cruise vessels. Started as apprentice and left as 4th engineer.

#### EDUCATION AND PROFESSIONAL QUALIFICATIONS

Merchant Marine Technical College;  
Two year marine engineer course - 1952 – 1954

Marine engineer diplomas  
Respectively; steam and motor

5th engineer, 4th engineer, 3rd engineer, 2nd engineer, Chief engineer;  
Certificate; A, B1 B2, C1, C2.

BCI Training; Effective Presentations 1994  
The Presidents Association; ABS/AMA Management 2000 1994

ABS Academy;  
Management Training & Development Program 1994

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Netherlands e-mail: ha.kalkman@wxs.nl