



Curriculum Vitae

Apostolos D. Papanikolaou
Professor Dr.-Ing., Habil.



1. Name, Place and Date of Birth :

Apostolos D. Papanikolaou
Athens-Greece, June 14, 1949
Nationality - Citizenship: Greek
Marital status: married with Sylvia Papanikolaou-Janke,
two (2) children, Michalis, born 1976 and Anastasia, born 1979

2. Address :

Office

National Tech. Univ. of Athens
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3. Academic Rank (until 30th August, 2016, retired September 1, 2016):

Professor (Full) of Naval Architecture & Marine Engineering
Head of Ship Design Laboratory of NTUA

4. Univ. Degrees (with Field), Institution & Date, Distinctions:

- Dipl.-Ing., Naval Architecture & Marine Engineering,
Tech. Univ. Berlin (Feb. 1973), grade: 'Summa Cum Laude' ("*mit Auszeichnung*")
- Dr.-Ing., Naval Architecture & Marine Engineering,
Tech. Univ. Berlin (June 1977), grade: 'Summa Cum Laude' ("*mit Auszeichnung*")
- Habilitation, Naval Architecture & Marine Engineering,
"Theoretical Methods of Ship Hydrodynamics", Tech. Univ. Berlin (July 1981)

5. Languages:

- Greek (mother)
- German : excellent
- English : excellent
- French : fair
- Japanese : elementary

6. Fields of Expertise

- Naval Architecture & Ocean/Offshore Engineering
- Ship Design
 - Conventional and Advanced Marine Vehicles
 - Holistic Ship Design
 - Risk based ship design/ Design for Safety
 - Logistics based ship design
- Optimization Methods
 - Multi-objective optimization
- Theoretical and Applied Ship Hydrodynamics
 - Calm water performance-resistance/propulsion
 - Seakeeping
 - Nonlinear seakeeping
 - Hydrodynamic loads
 - Added resistance in waves
 - Maneuvering
 - Calm water and in adverse weather conditions
 - Maneuvering coefficients and simulation of trajectories
- Ship Safety
 - Probabilistic assessment of ship's safety
 - Formal Safety Assessment
 - Ship's stability
 - Dynamic intact and damage stability
 - Simulations of ship capsizing
 - International regulations
 - Casualties data mining
 - Marine Accident investigations

7. Honors/Awards/Distinctions, Scholarships, Appointments:

Honors/Awards/Distinctions:

1. Diploma in Naval Architecture and Marine Engineering graded with '**Summa Cum Laude**' ("*mit Auszeichnung*"), Tech. Univ. Berlin, Feb. 1973.
2. Doctorate of Engineering on "Nonlinear Seakeeping" graded with '**Summa Cum Laude**' ("*mit Auszeichnung*"), Tech. Univ. Berlin, June 1977.
3. "**Werner von Siemens Ring**" Junior Scientist Award Prize 1983: 1st honored Naval Architect in Germany; award granted for outstanding scientific work in the field of Nonlinear Ship Motions; nomination by the German Society of Naval Architects and Marine Engineers (STG); Dortmund, Dec. 1983.
4. "**Deans Educational Award '85** ", College of Engineering, Univ. of Hawaii, (for outstanding teaching performance, 1985)
5. **Institute of Industrial Science**, University of Tokyo, Honors for contributions at the Seiken Int. Symposium on "Vision on Academic Research in Ocean Engineering", Univ. Tokyo, Sept. 1987
6. **1st Award**: International Universities Competition on Futuristic Ship Design for Short Sea Shipping - Project proposal SMUCC – Innovative SWATH Multipurpose Container Carrier, Schiff-Maschine-Meerestechnik Exhibition & Conference SMM'94, Hamburg, September 1994.
7. **1st Joint Award**: The RINA Safer Ship Competition 1999 – Improved Guidance to the Master for Avoiding Dangerous Situation in Extreme Weather Conditions, The Royal Institution of Naval Architects, London, April 2000; together with K. Spyrou, NTUA and E. Boulougouris, NTUA.
8. **SLF47/IMO**, commendation for contributions to the work of the International Correspondence Group (SLF47/3/2) and the New Harmonized Damage Stability Regulations, 2004; together with S. Rusaas, DNV and E. Eliopoulou, NTUA.
9. **The 2007 Award of the Journal of Engineering for the Maritime Environment** for the paper on "Casualty Analysis of AFRAMAX Tankers", co-authored by A. Papanikolaou, E. Eliopoulou, A. Alissafaki, N. Mikelis, S. Aksu, S. Delautre.

10. **The 2009 Greek Shipping Award *Technical Innovation of Lloyds List*** jointly awarded to the Ship Design Laboratory of NTUA and Germanischer Lloyd, for their innovative work on optimization of tanker design for highest efficiency and environmental protection.
11. **The Society of Naval Architects and Marine Engineers (SNAME): The 2010 Dr. Kenneth S. M. Davidson award & medal** for "Outstanding Scientific Accomplishments in Ship Research"; 2nd honored non American scientist since the establishment of the award in year 1959; award ceremony in November 2010, Seattle. (www.sname.org/directories/awards).
12. **Commendation 'Honoris Causa'** in recognition of exceptional services rendered in the cause of outstanding scientific accomplishments & research in the maritime area, **NEW YORK COLLEGE**, on the occasion of the 2011 Commencement Exercises, July 13, 2011, Athens.
13. Author of the 2nd most downloaded paper on **Holistic Ship Design Optimization published at the Journal of Computer-Aided Design (CAD)**, Elsevier, 5-Year Impact Factor:2.310, <http://www.journals.elsevier.com/computer-aided-design/most-read-articles/>, Feb. 2011 (overall 10th most downloaded paper, status: September 2013).
14. **Transport Research Arena – Europe 2012: Personal commendation by the EU Commissioner** for Research, Innovation and Science Mrs. **Marie Geoghegan-Quinn** for innovative research in the maritime sector, commissioner's speech/12/285, www.naval.ntua.gr/sdl/News/s12_285.en.pdf, 23rd April 2012, Athens.
15. **The Greek Ministry of Education** Commendation/Award for scientific contributions to the Holistic Methods in the Design and Safety of Ships and Excellence in Greek Higher Education (APIΣTEIA), December 12, 2012, Athens. (excellence.minedu.gov.gr)
16. **European Union Transport Research Champion** in the category waterborne, Senior Researcher Competition, Transport Research Arena – Europe, TRA2014 (www.traconference.eu), 16th April 2014, Paris.
17. **The ABS – Captain Joseph H. Linnard Prize** for the best paper contributed to the Annual Meeting of the Society of Naval Architects and Marine Engineers (SNAME) in 2013, 24th October, 2014, Houston (www.sname.org/directories/awards).
18. **Awarded status of distinguished fellow member** of the Society of Naval Architects and Ocean Engineers of Japan, September 30, 2016.
19. **Testimonial** of the National Institute of Ports, Maritime and Aviation Technologies of Japan, September 30, 2016.

Honors / Medals:

- Medal of Kyushu Univ., Inst. of Applied Mechanics, Fukuoka, May 1991
- Medal of Hiroshima Univ., Dep. of Ocean Engineering, Hiroshima, May 1991
- Medal of Maritime Museum of the Aegean, Athens, October 1992
- Memorial Crystal of Professor M. Nakato, Hiroshima Univ., Feb. 1994
- Silver Plate of the Faculty of Engineering, Osaka University Prefecture, College of Engineering, Dep. of Marine System Engineering, Feb. 1994

Scholarships/Fellowships:

1. Stipend of "Berliner Senate" for outstanding performance of foreign students, Tech. Univ. Berlin, Berlin (1967-1970)
2. Fellowship of "Alexander von Humboldt" Foundation, Feodor Lynen Program, Bonn, March 1984 (for University of California, Berkeley, USA)
3. Scholarship of Department of Naval Architecture and Ocean Engineering, Osaka University, Japan, May 1991
4. Scholarship "Deutscher Akademischer Austauschdienst" (DAAD), Inst. f. Schiffbau, Univ. Hamburg and Inst. f. Schiffs-und Meerestechnik, Tech. Univ. Berlin, September-November 1993.
5. Scholarship "HITACHI Shipbuilding Co.", Osaka University, Dec. 1993 - Feb. 1994.
6. Scholarship "Fellowship of the Japanese Society for the Promotion of Science – JSPS", Osaka University, Nov. 1999-Jan.2000.

7. Fellowship of Osaka University Prefecture "Distinguished Guest Professor", Jan.-Feb. 2013.
8. Fellowship Nanyang Technological University, Sep. 2015.

Appointments (academic, at Professor-Lecturer level):

- 1) Head of Laboratory of Ship Design, Nat. Tech. Univ. of Athens, 1990 – 30th August 2016
- 2) Full Professor (tenured), Nat. Tech. Univ. of Athens, 1988- 30th August 2016
- 3) Assoc. Professor (tenured), Nat. Tech. Univ. of Athens, 1985-88
- 4) Assoc. Professor, Univ. of Hawaii, USA, 1981/82 (visiting), 1984/85 (tenure track)
- 5) Privat-Dozent/Lecturer, Tech. Univ. Berlin, Germany, 1982-1986
- 6) Visiting Professor, Osaka University, Japan,
 - a. May 1991,
 - b. Dec. 1993 - Feb. 1994,
 - c. April 2008
- 7) Visiting Professor, University of Hamburg, Germany, Sept. - Oct. 1993
- 8) Visiting Professor, Tech. Univ. of Berlin, Germany,
 - a. Nov. - Dec. 1993,
 - b. Dec. – Jan. 2008
- 9) Visiting Professor, Strathclyde University, United Kingdom, Jan. 2000 - March 2000
- 10) Visiting Professor, University of Hawaii, USA, May 2008
- 11) Visiting Professor, Osaka University Prefecture, Japan, Jan.-Feb. 2013
- 12) Visiting Professor, Nanyang Technological University, Singapore, Sep. 2015

Appointments (governmental):

1. Vice-President and Member of the Board of Directors of MARTEDEC S.p.A. (Marine Technology Development Company), Piraeus, Greece, Dec. 1990/ June 1992
2. Member of the Greek 'Board for University Research', Greek Ministry for Education, February 1993
3. Head of Commission for the Procurement and Conversion of a ship for the Greek Ministry of the Aegean, October 1992-May 1993
4. Vice-President of the Greek 'Board for University Athletics', Greek Ministry for Education, March 1993 / June 1994.
5. Technical Advisor of the Hellenic Chamber of Shipping and Member of the Greek Delegation to IMO (International Maritime Organization), October 1995 - today.
6. Coordinator of the investigation into the causes for sinking of the ferry *Express Samina*, 2001-2003 (Ministry of Justice).
7. Member of Committee for the evaluation of the Greek Merchant Marine Academies according to provisions of IMO, 2003-2004
8. Member of National Scientific Council for Engineering Sciences, 2014-2017 (Ministry of Education)

8. Present & Past Employment / Professional Activities :

- | | |
|----------------|--|
| 10. 2016-today | Senior Scientific Advisor, HSVA Hamburg |
| 7.1999-2005 | Consultant ROGAN & Associates |
| 6.1998 | Consultant Hellenic Register of Shipping |

9.1997	Consultant SARLIS Container Shipping
6.1995-2003	Technical Advisor of Hellenic Chamber of Shipping, Association of Greek Shipowners for Passenger Shipping, Greek Shipowners Association for Coastal Passenger Vessels, Greece
2.1993-12.93	Consultant, EUROSTATUS (Technology - Management Financial Cons. Co.), Heraklion-Crete, Greece
9.1992-9.93	Consultant, TRADEMCO (Transportation Development & Management Cons.), Athens, Greece
12.1990-6. 92	Vice-President and Member of Board of Directors of MARTEDEC S.p.A. (Marine Technology Development Company), Piraeus, Greece
3.1988-8.2016	Full Professor of Naval Architecture & Marine Eng., National Tech. Univ. of Athens, School of Naval Arch. & Marine Engrg. Division of Ship Design and Maritime Transport
1988-2005	Consultant, A.S.D. Marine Services Ltd., Alpha Marine Ltd., Piraeus, Greece
6.1985-3. 88	Assoc. Professor (tenured) of Naval Architecture & Marine Engrg., Nat. Tech. Univ. of Athens, Dept. of Naval Arch. & Marine Engrg., Chair of Ship Design
1986-1988	Consultant, Greek Chamber of Medium Sized Enterprises (EOMMEX), Athens
8.1984-7.1985	Assoc. Professor (tenure track) of Ocean Engineering, Univ. of Hawaii
1.1983-12.1987	Lecturer Professor, Dept. of Naval Arch. & Offshore Eng., Tech. Univ. of Berlin, Berlin
1983-1990	Consultant, Germanischer Lloyd Classification Society, Hamburg Headquarters, Hamburg
8.1981-8.1982	Consultant, Ocean Eng. Cons. Inc., Honolulu
8.1981-8.1982	Associate Professor (visiting) of Ocean Engineering, Univ. of Hawaii, Honolulu
4.1978-12.1982	Research Associate (senior), Chair of Ship Design, Tech. Univ. Berlin, Berlin
2.1973-2.1978	Scientific Assistant and Instructor, Chair of Ship Design, Tech. Univ. Berlin, Berlin
4.1970-2.1973	Student Assistant (Tutor), Chair of Ship Theory, Tech. Univ. Berlin, Berlin
7.1972-9.1972	Student Trainee, Hellenic Shipyards, Skaramanga, Piraeus
3.1971-4.1971	Student Trainee, Lindenau Shipyard, Kiel, W. Germany

7.1967-10.1967 Student Trainee, Versuchsanstalt für Wasserbau und Schiffbau (VWS) - Berlin, Experimental Center for Coastal Engineering and Naval Architecture, Berlin

9. Memberships in Professional Societies / Technical Committees / Reviewer :

- Schiffbautechnische Gesellschaft (STG), Hamburg, Germany (1978, Member)
- Hochschulverband (HSV), Bonn, Germany (1981, Member)
- Society of Naval Arch. and Marine Eng. (SNAME), New York, USA (1981, Member, 2006 Fellow)
- Society of Ocean Engineers, Honolulu, USA (1985) (Honorary Member)
- Technical Chamber of Greek Engineers (TEE), Athens (1985, Licensed Member)
- Hellenic Institute for Marine Technology (HIMT), Piraeus (1985, Fellow), elected President : 1994 - 1998
- Royal Inst. of Naval Architects (RINA), LONDON, United Kingdom (1987, Member, 2002, Fellow)
- Engineering Council Chartered Engineer (C. Eng.) London, United Kingdom (1987, Licensed Member)
- Kansai Soc. of Naval Architects, Osaka, Japan (1987, Member)
- Greek Committee Germanischer Lloyd (GL), Piraeus (1988, Honorary Member)
- Greek Association of Computational Mechanics (GRACM), Athens (1991, Member)
- National Representative in the West European Graduate Education in Marine Technology (WEGEMT), London (1990) (Member),
 - Sept. 1993, Member of the Executive Committee,
 - Sept. 1994: elected Chairman of Executive Committee
 - (re-elected in Sept. 1996 until Sept. 1999)
 - (re-elected in Oct. 2001 and Sept. 2004 until Sept. 2005)
 - since Sept. 2005: **ex-officio member of the Executive Committee**
- Coordinator of ERASMUS Program on Marine Technology for Greece (until 1997).
- Technical Advisor of the Greek Shipowners Association for Passenger Ships and the Hellenic Chamber of Shipping to IMO (International Maritime Association) - SOLAS Conference 1995, SLF Committee 1996-today.
- Technical Advisor of the Mediterranean Group of Shipowners (MEDGROUP)
- Elected Member of the Technical Committee of ITTC (International Towing Tank Conference) on Ship Stability (representing Southern Europe, election September 1996, reelected 1999-2008).
- Technical Advisor of the Hellenic Chamber of Shipping to IMO (International Maritime Association) – MSC committee on Bulkcarriers Safety
- Member of RINA's (Royal Institution of Naval Architects) Safety Group Committee
- Elected Fellow member of RINA's (Royal Institution of Naval Architects) Council (2001-2007)
- Member of Advisory Committee of Hellenic Register of Shipping (February 2002)

- Member of the Technical Committee of the Greek Ministry of Mercantile Marine
- Peer reviewer of research outcome of Italian Universities (Italian Ministry for Education, since 2012)
- Elected **President** of the Greek section of the Society of Naval Architects and Marine Engineers (SNAME) (2012-2014)
- External member of the PhD School of Engineering Science of the University of Trieste (since 2012)
- Member of the Greek Shipping hall of Fame Academy (since 2012)

Editorials of Scientific Journals, Reviewer of Scientific Papers, Reviewer of Res. Programs, Member- and Chairmanship in Int. Conferences and Committees:

Conferences/Journals/Res. Programs:

- 1) Reviewer of Journal of Fluid Mechanics (JFM),
- 2) Reviewer of Journal American Soc. of Civil Engineers (ASCE)
- 3) Reviewer of Journal of Ship Research (JSR)
- 4) Reviewer of Journal International Shipbuilding Progress (ISP)
- 5) Reviewer of Int. Soc. of Offshore and Polar Engineers (ISOPE)
- 6) Reviewer of Offshore Mechanics and Arctic Engineering (OMAE)
- 7) Reviewer of American Society of Mechanical Engineers (ASME)
- 8) Greek Assoc. of Theoretical and Applied Mechanics (EEOEM)
- 9) Reviewer of Int. Congress on Marine Technology (IMAEM)
- 10) Reviewer of Int. Marine Systems Design Conference (IMDC)
- 11) Reviewer of Fast Marine Transportation Conference (FAST)
- 12) Reviewer of Industrial & Materials Technologies Program (BRITE-EURAM)
- 13) Reviewer of Journal Computers & Structures
- 14) Member of Steering Committee of the Int. Stability Conference (STAB)
- 15) Member of Exec. Committee of the **Int. Marine Design Conference (IMDC)**
 - **Elected Chairman of Exec. Committee, May 2006-today**
- 16) Chairman of the 3rd Int. Stability Workshop (Crete, 1997)
- 17) Member of the Int. Committee of the Int. Symposium on High Speed Marine Vehicles (HSMV, Naples 1999-today)
- 18) Member of the Nat. Committee of the Int. Congress on Safety of Marine Transportation (Piraeus, 1998)
- 19) Reviewer of the Italian Ministry for University and Research (since 1998-today)
- 20) Member of the Int. Scientific Committee of the 7th Int. Symposium IMAM 2000 (Naples, 2000)
- 21) Co-editor, Journal Ship Technology Research, Hamburg-Germany (since 1999)
- 22) Reviewer of International Journal for Numerical Methods in Fluids
- 23) Reviewer Journal Ocean Engineering
- 24) Member of Int. Review Committee of the Marine Technology Department, Delft University of Technology (1999-2000)
- 25) Deputy Editor of the Journal of Marine Science and Technology, Tokyo-Japan (since 2001)
- 26) Chairman of the Int. Maritime Research and Technology Multiconference (Crete, 2001)
- 27) Member of the Editorial Board of the Journal of Engineering for the Marine Environment, Suffolk-UK (since 2001)
- 28) Member of the Editorial Board of the International Journal of Maritime Engineering, RINA-London (since 2002)
- 29) Chairman of the 8th International Marine Design Conference, IMDC03, Athens, May 2003

- 30) Member of the Editorial Board of the International Journal of Marine Systems & Ocean Technology, SOBENA-Rio de Janeiro (since 2003)
- 31) Reviewer of the Foundation for the Promotion of Research of Cyprus (2003-2006)
- 32) Member of the Editorial Board of the International Journal of Ships and Offshore Structures, Woodhead Publ. Ltd (since 2005)
- 33) Chairman of the 3rd Int. Maritime Research and Technology Multiconference (Crete, 2005)
- 34) Member of the EPSRC Peer Review College, Engineering and Physical Sciences Research Council, United Kingdom (2006-2009)
- 35) Reviewer of Journals (continued):
 - Applied Ocean Research,
 - Computer Aided Design (CAD),
 - Reliability Engineering and System Safety,
 - International Shipbuilding Progress,
 - Ocean Dynamics, Ships and Offshore Structures
 - Journal of Naval Architecture and Ocean Engineering, Korea
 - Journal of Marine Science and Application, China
 - Ships and Offshore Structures
 - Hydronautics, Part B
 - Safety Science
 - Accident Prevention and Control
- 36) Member of international panel for the evaluation of the marine technology study programme of Norwegian University of Science and Technology NTNU, Trondheim, Norway (2011)
- 37) Reviewer of EQUIPEX 2011 - ANR (French National Research Agency) (2011)
- 38) Member of the Scientific Council of the PhD School of Engineering, University of Trieste, Italy (since 2011)
- 39) Co-chairman of 11th International Conference on the Stability of Ships and Ocean Vehicles, STAB2012, Athens, Sep. 23-28, 2012.
- 40) Reviewer Polish-Norwegian collaborative research programme (2009-2014)
- 41) Reviewer of Netherland's Technology Foundation STW research programme (2013-2014)
- 42) Reviewer of research programme of Denmark's Innovation Foundation (2014)
- 43) External reviewer of faculty members Chalmers University (2015)
- 44) External reviewer of Croatian RTD projects (2015)
- 45) External reviewer of faculty members Tech. Univ. Denmark (2016)

10. Major Memberships in Academic Committees (chronologically)

- 1) Acting Chairman, Dep. of Ocean Engineering, Univ. of Hawaii, 1985
- 2) Vice Chairman, Dep. of Naval Arch. & Marine Engineering, Nat. Tech. Univ. of Athens, 1986-1989
- 3) Member of Univ. Senate, Nat. Tech. Univ. of Athens, 1986-1988, 1991-1993, 2004-2005.
- 4) Chairman of committee of sport affairs, Nat. Tech. Univ. of Athens, 1987-1993
- 5) Member of National Committee and Vice President for Greek Univ. Sport Events Committee (EATE) 1987- 1993
- 6) Head of Laboratory of Ship Design, Dept. of Naval Architecture and Marine Engineering, National Technical University of Athens, 1990-today
- 7) Chairman, Dep. of Naval Architecture & Marine Engineering, Nat. Tech. Univ. of Athens, 1991-1993
- 8) Vice Chairman of Board for Student Affairs, Nat. Tech. Univ. of Athens, 1991-1993 and 2004-2005, member 2003-2004.
- 9) Chairman, Division of Ship Design and Maritime Transport, Nat. Tech. Univ. of Athens, 2001-2003, 2005-2006, 2006-2007, 2013-2014, 2014-2015.

- 10) Vice Chairman, School of Naval Arch. & Marine Engineering, Nat. Tech. Univ. of Athens, 2003-2004.
- 11) Member of the Research Committee of the National Technical University of Athens, 2004-2007.
- 12) Chairman, School of Naval Arch. & Marine Engineering, Nat. Tech. Univ. of Athens, 2004-2005
- 13) Chairman, Senate's Board for Sport and Cultural Affairs, Nat. Tech. Univ. of Athens, 2006-today.
- 14) Member of Univ. Senate, Nat. Tech. Univ. of Athens, 2010-2011
- 15) Appointed peer reviewer of research outcome of Italian Universities (Italian Ministry for Education, since 2012)
- 16) Appointed external member of the PhD School of Engineering Science of the University of Trieste (since 2012)

11. Major Research Projects-

Principal Investigator/Senior Researcher:

1) "Calculations of nonlinear hydrodynamic effects on ship motions by integral equation methods" (completed)

Funding : Deutsche Forschungsgemeinschaft (DFG), Bonn, Germany
 Duration : 1978-1982(48 months)
 Principal Invest. : Prof. Dr.-Ing. H. Nowacki
 Senior Res. : Dr.-Ing. A. Papanikolaou

2) "Hydrodynamic analysis and conceptual design of SWATH vessels" (completed)

Funding : Greek Secr. General for Res. and Technology (ΓΓΕΤ),
 & Hellenic Shipyards, Skaramanga, Piraeus, Greece
 Duration : 1987-1989(24 months)
 Principal Invest. : Professor A. Papanikolaou

3) "Technoeconomical criteria and specifications for medium fisheries vessels" (completed)

Funding : Ministry of Agriculture, Div. of Fisheries, Athens, Greece
 Duration : 1988-1991(43 months)
 Principal Invest. : Professor A. Papanikolaou

4) "Computer-aided optimization of hull form of SWATH ships for least resistance" (completed)

Funding : Greek Ministry for Industry, Research and Technology, Athens, Greece, German Ministry for Research and Technology, Bonn, W. Germany
 Duration : 1987-1989(24 months)
 Principal Invest. : Professor A. Papanikolaou (NTUA)
 Professor H. Nowacki (TECH. UNIV. Berlin)
 (bilateral program)

5) "SMURV-SWATH MULTipurpose research vessel for the Mediterranean Area" (completed)

Funding : EUROMAR-EUREKA / Greek Secr. General for Research and Technology, international European Consortium
 Duration : 1990-1992/1993 (24/36 months)
 Partners : International EUREKA/EUROMAR Project, ITALMARE SpA (Italy), Partners: ENEA, CETENA (Italy), BMT CORTEC (United Kingdom), ECOLMARE IBERICA (Spain), NTUA, National Center for Marine Research and Alpha Marine Ltd.(Greece),

Principal Invest. : Prof. A. Papanikolaou (National Project Leader and Acting Overall Coordinator)

6) "Hydrodynamic analysis and conceptual design of high-speed CATAMARAN vessel for the Greek area" (completed)

Funding : Greek Secr. General for Res. and Technology (ΓΓΕΤ) Alpha Marine Ltd.- GLYNOS Shipyard, Piraeus, Greece

Duration : 1991-1994

Principal Invest. : Professor A. Papanikolaou

7) "Computer-aided 'Precontract design for the needs of Greek shipyards" (completed)

Funding : Greek Secr. General for Res. and Technology (ΓΓΕΤ), Eleusis Shipyard, Eleusis, Greece

Duration : 1991-1994

Principal Invest. : Prof. A. Papanikolaou

8) "Technoeconomical specifications for a fishing research vessel of the Greek Directorate for Fisheries" (completed)

Funding : Greek Directorate for Fisheries, Min. for Agriculture

Duration : 3.1990-9.1990 (6 months)

Principal Invest. : Professor A. Papanikolaou

9) "Propulsion and hull-propeller interaction of SWATH-like configurations" (completed)

Funding : Greek and German Ministry of Res. and Technology, Athens - Bonn

Duration : 1990-1992(24 months)

Principal Invest. : Prof. A. Papanikolaou (Greece)
Prof. H. Nowacki (Germany) - bilateral program

10) "Development of a SWATH Multipurpose Container Carrier for Shortsea Shipping in Europe - Integrated Intermodal System SMUCC"

Funding : 1st Prize Award of Int. Exhibition and Conference "Schiff-Maschine-Meerestechnik/ SMM' 94 - Sea 2000"

Duration : 2.1994-7.1994 (6 months)

Principal Invest. : Prof. A. Papanikolaou (Greece)

11) "Development of systematic series and design of prototype vessels for Greek Fisheries" (completed)

Funding : Greek Div. for Fisheries

Duration : 12.1994-12.1998 (48 months)

Principal Invest. : Prof. A. Papanikolaou

12) "Study on the Practical Implications of the Proposed New SOLAS Regulations on Existing Greek Ro-Ro Passenger Ships and Critical Review of the Proposed New Regulations" (completed)

Funding : Hellenic Chamber of Shipping, Greek Shipowners Association for Passenger Ships, Union of Coastal Passenger Shipowners"

Duration : 6.1995-11.1995 (5 months)

Principal Invest. : Prof. A. Papanikolaou

13) "Study on the hydrodynamic Performance of a High-Speed Rescue Boat for the Needs of the Greek Coast Guard" (completed)

Funding : FBM Marine LTD, AVIONIC
Duration : 4.1995-5.1995 (2 months)
Principal Invest. : Prof. A. Papanikolaou

14) "Development of a SWATH Offshore Patrol Vessel for the Aegean Sea" (completed)

User : Greek Navy, self-funded research
Duration : 10.1993-10.1995 (completed)
Principal Invest. : Prof. A. Papanikolaou

15) "NAUTIS - Information Services to the European Small Boat Industry" (completed)

Funding : DG XIII - E-2, IMPACT Program
Duration : 9.1995-9.1997 (24 months, extended 10.1998)
Principal Invest. : Overall Project Leader, Marine Tech. Dir. LTD, UK,
NTUA, Prof. A. Papanikolaou (Greece)

16) "Integration of a Fast Intermodal Container Transport System for Short Sea Shipping based on SWATH Technology" (completed)

Funding : DG VII - Transport
Duration : 4.1996-10.1996 (8 months)
Principal Invest. : ARP Zapka GmbH, Germany
NTUA : Prof. A. Papanikolaou (Greece)

17) "Concerted Action on Shortsea Shipping" (completed)

Funding : DG VII - Transport
Duration : 4.1995-10.1997 (30 months, extended 1998)
Principal Invest. : Professor H. Psaraftis, Greece,
WEGEMT Foundation, Prof. A. Papanikolaou

18) "Study on the Evaluation of the Roll Radius of Gyration of Ro-Ro Passenger Ships in view of the New SOLAS Regulations - Equivalent Model Test Method" (completed)

Funding : Hellenic Chamber of Shipping,
Duration : 3.1996-9.1996 (6 months)
Principal Invest. : Prof. A. Papanikolaou

19) "Analysis of the Dynamic Stability of Ro-Ro Passenger Ships and Investigation of the Probability of Capsizing in High Seas" (completed)

Funding : Greek Secr. General for Research & Technology
Duration : 10.1996-10.1998 (24 months)
Principal Invest. : Prof. A. Papanikolaou

20) Thematic Network SAFER-EURORO - Design for Survivability (completed)

Funding : DG XII
Duration : 10.1997-10.2001 (48 months)
Principal Invest. : Prof. A. Papanikolaou (NTUA)

21) WAVELOADS - Advanced Method to Predict Wave Induced Loads for High Speed Ships (completed)

Funding : DG XII - BRITE
Duration : 10.1997-10.2000 (36 months), extended 6.2001 (42 months)
Project Leader : Germanischer Lloyd, Hamburg
Principal Invest. : Prof. A. Papanikolaou (NTUA)

22) SHEAKS - Development of a Computer Based System for Enhanced Seakeeping and Structural Ship Design (completed)

Funding : DG XII - BRITE
Duration : 10.1997-10.2000 (36 months), extended 5.2001 (43 months)
Project Leader : BAZAN Shipyard, Madrid
Principal Invest. : Prof. A. Papanikolaou (NTUA)

23) INSPIRE - Innovative Ship Pilot Research (completed)

Funding : DG VII
Duration : 10.1997-10.2000 (36 months)
Project Leader : Lund-Mohr-Enger-Giaever, Bergen, Norway
Principal Invest. : Prof. A. Papanikolaou (NTUA)

24) TMR - Exploitation of Large Scale Facilities - SPANWAVE - Investigation of an Innovative 1000 t DWT High speed SWATH container carrier"(completed)

Funding : DG XII
Duration : 1998 (12 months)
Project Leader : CEHIPAR, El Padro, Madrid
Principal Invest. : Prof. A. Papanikolaou

25) TMR - Nonlinear Dynamics of Ship Capsize - Marie Curie Research Grant Dr. K. Spyrou, (completed)

Funding : TMR-DG XII
Duration : 1998 -1999(12 months)
Project Leader : Prof. A. Papanikolaou (Greece)
Principal Invest. : Dr. K. Spyrou, UCL, (United Kingdom)

26) "Systematic Study on the effect of the vertical extent of damage in view of the Harmonization of the SOLAS Stability Regulations " (completed)

Funding : Hellenic Chamber of Shipping,
Duration : 6.- 7.1998 (2 months)
Principal Invest. : Prof. A. Papanikolaou

27) "Systematic Study on the wave induced loads and on the capsizes of a series of standard type bulkcarriers" (completed)

Funding : Hellenic Chamber of Shipping,
Duration : 6.- 11.1998
Principal Invest. : Prof. A. Papanikolaou

28) TMR – Conferences to Examine Technological Developments in Marine Sector – COMAR, (completed)

Funding : TMR-DG XII –G3
Duration : 1999 -2002(36 months)
Scientist in charge : Prof. A. Papanikolaou (WEGEMT)
Administrator : Jim Grant (WEGEMT)

29) LEONARDO - Targeted Advanced Training Modules for the Marine Transport Industry – TAMAR, (completed)

Funding : DG XXII
Duration : 1999 -2001(24 months)
Scientist in charge : Prof. A. Papanikolaou (WEGEMT)
Administrator : Jim Grant (WEGEMT)

30) TMR – Summer Schools in Marine Sector – SIMMS, (completed)

Funding : TMR-DG XII –G3
Duration : 1999 -2001(24 months)
Scientist in charge : Prof. A. Papanikolaou (WEGEMT)
Administrator : Jim Grant (WEGEMT)

31) TMR – Targeted Schools in Marine Technology – TASMAR, (completed)

Funding : TMR-DG XII –G3
Duration : 1996-1998(24 months)
Scientist in charge : Prof. A. Papanikolaou (WEGEMT)
Administrator : Jim Grant (WEGEMT)

32) TMR – Targeted Schools in Marine Technology – EMIT, (completed)

Funding : TMR-DG XII –G3
Duration : 1997-1999(24 months)
Scientist in charge : Prof. A. Papanikolaou (WEGEMT)
Administrator : Jim Grant (WEGEMT)

33) EUCLID No. 98/RFP 10.14/003 – Optimal Techniques for Hull Geometry (completed)

International Consortium: INSEAN (Italy), DERA (United Kingdom), Greece (NTUA), Turkey (ITU)

Funding : Hellenic Navy
Duration : 1999-2002 (36 months)
Project Leader : INSEAN (Italy)
Principal Inv. (NTUA) : Professor A. Papanikolaou (NTUA)

34) NEREUS – First Principles Design for Damage Resistance Against Capsizing (completed)

Funding : DG XII – FP5
Duration : 1.2000-1.2003 (36 months)
Project Leader : WS Atkins, United Kingdom
Principal Invest. : Prof. A. Papanikolaou (NTUA)

35) FLOWMART – Fast Low-Wash Maritime Transportation (completed)

Funding : DG XII – FP5
Duration : 1.2000-1.2003 (36 months)
Project Leader : SSRC-Strathclyde Univ., United Kingdom
Principal Invest. : Prof. A. Papanikolaou (NTUA)

36) ROROPROB – Probabilistic Rules-based Optimal Design of Ro-Ro Passenger Ships (completed)

Funding : DG XII – FP5
Duration : 1.2000-1.2003 (36 months)
Project Leader : Deltamarin, Finland
Principal Invest. : Prof. A. Papanikolaou (NTUA)

37) HARDER– Harmonisation of Rules and Design Rationale (completed)

Funding : DG XII – FP5
Duration : 1.2000-1.2003 (36 months)

Project Leader : Det Norske Veritas, Norway
Principal Invest. : Prof. A. Papanikolaou (NTUA)

38) STOCKHOLM AGREEMENT - Impact Assessment of Stockholm Agreement to EU Ro-Ro Passenger vessels (completed)

Funding : DG VII – dedicated study
Duration : 3.2000-3.2001 (12 months)
Project Leader : Univ. of Strathclyde, United Kingdom
Principal Invest. : Prof. A. Papanikolaou (NTUA)

39) Formal Safety Assessment of Bulkcarriers - (completed)

Funding : RINA/ EU DG Transport – dedicated study
Duration : 9.2000-8.2001 (12 months)
Project Leader : NTUA – Ship Design Laboratory
Principal Invest. : Prof. A. Papanikolaou (NTUA)

40) EFFISES – Energy Efficient Safe Innovative fast Ships and Vessels (completed)

Funding : DG XII – FP5
Duration : 3.2001-2.2004 (ext. 10.2005) (36 (54) months)
Project Leader: SES Europe AS, Norway
Principal Invest. : Prof. A. Papanikolaou (NTUA)

41) VRSHIP – ROPAX 2000 – A Virtual Environment for Life-Cycle Design of Ship Systems (completed)

Funding : DG VII – Technology Platform – FP5
Duration : 10.2001-9.2005 (48 months)
Project Leader : Chantiers de l' Atlantique, France, Univ. of Strathclyde, UK
Principal Invest. : Prof. A. Papanikolaou (NTUA)

42) MEGAYACHT Optimisation (completed)

Funding : Alpha Marine Ltd
Duration : 12/2000 – 4/2001 (5 months)
Principal Invest. : Prof. A. Papanikolaou

43) Thematic Network SAFER-EURORO II – Design for Safety (completed)

Funding : DG XII – FP5
Duration : 11.2002-10.2005 (48 months)
Project Leader : SSRC/SU Glasgow, United Kingdom
Principal Invest. : Prof. A. Papanikolaou (NTUA)

44) FSG 2000 – Evaluation of the FSG Ro-PAX 2000 Design (completed)

Funding : Flensburg Shipyard, Germany
Duration : 11/2001 – 1/2002 (3 months)
Principal Invest. : Prof. A. Papanikolaou

45) DCAT – Evaluation of the LMG – DCAT Catamaran Design (completed)

Funding : LMG Marin, Bergen, Norway
Duration : 9/2001 – 12/2001 (3 months)
Principal Invest. : Prof. A. Papanikolaou

46) SHELL 2003 – Assessment of the Seaworthiness of Tanker for the Aegean (completed)

Funding: SHELL Hellas, Greece
Duration: 1/2003-3/2003 (3 months)
Principal Invest. : Prof. A. Papanikolaou

47) Study on the Safety of Traffic in the Entranceways to the Port of Egoumenitsa (completed)

Funding: Greek Passenger Shipowners Association
Duration: 4/2003-7/2003 (3 months)
Principal Invest. : Prof. A. Papanikolaou

48) Development of an Integrated Methodology for the Design of Ro-Ro Passenger Ships and Application to the Design of a Feeder Ro-Ro Passenger Ship for the Needs of Greek Shortsea Shipping (completed)

Funding: Greek Secretariat for Research and Technology, Programme EPAN - Transport
Duration: 2004-2007 (36 months)
Project Leader: NTUA, Partner: Elefsis Shipyard
Principal Invest. : Prof. A. Papanikolaou

49) LOGBASED – Logistics Based Design (completed)

Funding: European Commission, DG Research, FP6-STREP
Duration: 2004-2007 (36 months)
Project Leader: LMG Marin, Norway, Partners: NTUA-SDL, Flensburg Shipyard, IZAR, Wilson EuroCarriers, DFDS Tor Line, FRESTI, FORDESI, Strathclyde Uni., NEC, DNV, ENVC
Principal Investigator (NTUA): Prof. A. Papanikolaou

50) POP&C – Pollution Prevention and Control Safe Transportation of Hazardous Goods by Tankers (completed)

Funding: European Commission, DG Research, FP6-STREP
Duration: 2004-2007 (36 months)
Project Leader: INTERTANKO Partners: NTUA-SDL, NAME-SSRC, BV, SIREHNA, FDS, AVIN, FINC, MSR, DNV, IZAR, ITU, HSSE, SOU, UNEW, IMO
Principal Investigator (NTUA): Prof. A. Papanikolaou

51) Review of IMO's New Probabilistic Damage Stability Regulatory Framework – Dry Cargo and Passenger Ships (completed)

Funding: The Shipbuilding Research Association of Japan (JSRA)
Duration: 2004 (3 months)
Project Leader: NTUA-SDL
Principal Investigator (NTUA): Prof. A. Papanikolaou

52) Reanalysis of Damage Stability Results of Dry Cargo and Passenger Ships and Proposals for the New Required Subdivision Indices in the Framework of the New Probabilistic Damage Stability Concept (completed)

Funding: NTUA-SDL, work on behalf of IMO-SLF47/ISCG
Duration: 9.2003 – 9.2004 (12 months)
Project Leader: NTUA-SDL
Principal Investigator (NTUA): Prof. A. Papanikolaou

53) ASIA Link - Knowledge transfer on ship design, production and operation -- towards safety, efficiency and low environmental impact (completed)
Funding: European Commission – ASIA Link Programme
Partners: SU-SSRC (United Kingdom), Harbin Univ. (China), Univ. Kasetsart (Thailand), NTUA (Greece)

Duration: 1.2004 – 1.2007 (36 months)
Project Leader: SU-SSRC
Principal Investigator (NTUA): Prof. A. Papanikolaou

54) GIFT - LNG IMPORT FLOATING TERMINAL (completed)
Funding: European Commission – FP6-STREP Programme
Partners: DORIS Engineering (France), DNV, CAT, LMC, NTUA – Ship Design Laboratory & Division of Ship Structures (Greece)
Duration: 2.2005 – 1.2007 (24 months)
Project Leader: DORIS Engineering
Principal Investigator (NTUA-SDL): Prof. A. Papanikolaou

55) SAFEDOR - Design, Operation and Regulation for Safety (completed)
Funding: European Commission – FP6 Programme
Partners: Germanischer Lloyd (Germany), + 70 European Partners, NTUA-Ship Design Laboratory (Greece)
Duration: 1.2005 – 4.2009 (52 months)
Project Leader: Germanischer Lloyd
Principal Investigator (NTUA): Prof. A. Papanikolaou

56) ADOPT - Advanced Decision Support System for Ship Design, Operation and Training (completed)
Funding: European Commission – FP6-STREP Programme
Partners: Flensburg Shipyard (Germany), DNV, GKSS, OWS, MUV, FORCE, DTU, DFDS, TUHH, HSSI, SAM, UR, NTUA-Ship Design Laboratory (Greece)
Duration: 4.2005 – 3.2008 (36 months)
Project Leader: Flensburg Shipyard
Principal Investigator (NTUA): Prof. A. Papanikolaou

57) CAREMAR - Coordinated Academic Research and Education to Support Innovation in European Marine Industries (completed)
Funding: European Commission – FP6-CA Programme
Partners: {WEGEMT Association of European Universities in Marine Technology and Related Sciences (Co-ordination)} + 12 European Universities (Helsinki, Glasgow/Strathclyde, Plymouth, Lisbon, Trondheim, Newcastle, Southampton, Bremen, Copenhagen, Gdansk, St Petersburg) + CESA (Association of European Shipbuilders), NTUA (Greece)
Duration: 9.2005 – 8.2008 (36 months)
Project Leader: WEGEMT
Principal Investigator (WEGEMT+NTUA): Prof. A. Papanikolaou

58) ACMARE – Advisory Council for Maritime Transport Research in Europe (completed)
Funding: European Commission – FP6-CA Programme
Partners: CESA Association (Co-ordination), ECMAR (FORCE), ECSA, EMEC, ESPO, EUDA, EUROGIF, RINA SPA (EURACS), WEGEMT
Duration: 3.2005 – 2.2008 (36 months)
Project Leader: CESA
Principal Investigator (WEGEMT): Prof. A. Papanikolaou

59) VISIONS – Visionary Concepts for Vessels and Floating Structures (completed)
Funding: European Commission – FP6-NOE Programme
Partners: CESA Association (Co-ordination), IMAVIS, CAT, CET, VDB, CONOSHIP, AMTW, MARINTEK, JAFO, EVIMAR, URO, IZAR, CMT, ROLLS-ROYCE, ECSA, BMT, SSPA, CTO, SSRC, BALANCE, GL, EUROGIF, WEGEMT
Duration: 3.2005 – 2.2009 (48 months)
Project Leader: CESA
Principal Investigator (WEGEMT): Prof. A. Papanikolaou

60) Exploitation of Large Scale Facilities - HYDRALAB - Investigation of parametric roll in seaways" (completed)
Funding: DG Research
Duration: 2007-2008 (12 months)

Project Leader: NTUA-SDL (Greece)
Partners: CEHIPAR, El Pardo (Spain), Germanischer Lloyd (Germany)
Principal Invest.: Prof. A. Papanikolaou (NTUA)
Senior Res.: Dr. D. Spanos (NTUA)

61) DNV GIFT – Ship Design Optimisation (completed)

Funding: Det Norske Veritas (Norway)
Duration: 2008-2011 (36 months)
Project Leader: NTUA (Greece)
Principal Invest. (NTUA-SDL): Prof. A. Papanikolaou

62) PROMARC - Promoting Marine Research Careers (completed)

Funding: DG Research – FP7 1st call
Duration: 2008-2011 (36 months)
Partners: WEGEMT Association of European Universities in Marine Technology and Related Sciences (Co-ordination), Universities: NTUA, Glasgow/Strathclyde, Plymouth, Newcastle, ETSIN, Delft, Gdansk, Rostock + ECMAR (European Council for Maritime Applied R&D Association) + CESA (Association of European Shipbuilders) + EMEC (European Marine Equipment Council) + GE Oil & Gas
Principal Invest. (NTUA): Prof. A. Papanikolaou

63) TANKOPT – Holistic Optimisation of Tanker Design (completed)

Funding: Germanischer Lloyd (Germany)
Duration: 2008-2009 (12 months)
Project Leader : NTUA-SDL (Greece)
Partners: Germanischer Lloyd (Germany)
Principal Invest.: Prof. A. Papanikolaou (NTUA)
Senior Res.: Ass. Prof. G. Zaraphonitis (NTUA)

64) FLOODSTAND - Simulation and Control for Large Passenger Ships (completed)

Funding: DG Research – FP7 1st call
Duration: 2009-2012 (36 months)
Project Leader: TKK (Finland)
Partners: TKK (FI) coordinator, AY (FI), CNRS (FR), CTO (PO), DNV (NO), MARIN (NL), MEC (EST), MW (GE), NAPA (FI), SFC (FI), SSRC (UK), BMT (UK), SSPA (SWE), SaS (PO), BV (FR), MCA (UK)
Principal Invest. (NTUA-SDL): Prof. A. Papanikolaou

65) GOALDS - Goal based Damage Stability (completed)

Funding: DG Research – FP7 2nd call
Duration: 2009-2012 (36 months)
Project Leader: NTUA-SDL (Greece)
Partners: NTUA-SDL (GR) coordinator, SSRC (UK), SaS (UK), GL (GER), DNV (NO), LR (UK), DMA (DEN), MCA (UK), VMB (AUS), HSVA (GER), FIN (IT), DINMA (IT), MW (GER), STX (FR), STX (FI), COLOR Line (NOR), RCCL (UK), CARNIVAL (UK)
Coordinator (NTUA-SDL): Prof. A. Papanikolaou

66) EU-CargoXpress - Greening of surface transport through an innovative and competitive CARGO-VESSEL Concept connecting marine and fluvial intermodal ports (completed)

Funding: DG Research – FP7 2nd call
Duration: 2009-2012 (36 months)
Project Leader: Compañía Transmediterránea (Spain)
Partners: ACC (ES) PAG (ES), SDC (GER), MARINTEK (NO) UPM (ES), SIE-MT (GER) ILCX (ES), CMT (GER), SICOMP (GER), KAB (SWE), F-AS (NOR), KTH (SWE), NTUA-SDL (GR), DNV (NOR)
Principal Invest. (NTUA-SDL): Prof. A. Papanikolaou

67) EMSA-STOCKHOLM AGREEMENT - Impact Assessment of Stockholm Agreement on SOLAS 2009 (completed)

Funding : EMSA– dedicated study
Duration : 2009-2011 (17 months)
Project Leader : SSRC-Univ. of Strathclyde, United Kingdom
Partners: : SSRC, NTUA-SDL, SaS, Deltamarin, Vienna Model Basin
Principal Invest. : Prof. A. Papanikolaou (NTUA-SDL)

68) TANKOPT 2 – BEST **B**etter **E**conomics with a **S**afer **T**anker (completed)

Funding: Germanischer Lloyd (Germany)
Duration: 2009-2010 (12 months)
Project Leader : NTUA-SDL (Greece)
Partners: Germanischer Lloyd (Germany), Friendship System (Germany)
Principal Invest.: Prof. A. Papanikolaou (NTUA)
Senior Res.: Ass. Prof. G. Zaraphonitis (NTUA)

69) BEST+ **B**etter **E**conomics with **S**afer **T**ankers (completed)

Funding: Germanischer Lloyd (Germany)
Duration: 2011-2012 (12 months)
Project Leader: NTUA-SDL (Greece)
Partners: Germanischer Lloyd (Germany), Friendship System (Germany)
Principal Invest.: Prof. A. Papanikolaou (NTUA)
Senior Res.: Assoc. Prof. G. Zaraphonitis (NTUA)

70) REFRESH - Retrofitting of existing ships with green technologies (running)

Funding: DG Research – FP7 3rd call
Duration: 2011-2014 (36 months)
Project Leader: V.DELTA (Monaco)
Partners: Alpha Marine Services (EL), METALSHIPS & DOCKS (SP), ANEK (EL), AIN (POR), ACL (SP), S@S (UK), TV (POR), KALLISTO (EL), FC (SP), NTUA (EL), SSRC (UK), ENI (FIN), HRS (EL), STX (FIN), SEATEC (UK), SGDP (IT), ABS Europe (UK), KLEIMAR (BEL).
Principal Invest. (NTUA-SDL): Prof. A. Papanikolaou

71) CONTIOPT – Formal Safety Assessment and Optimization of Containerships (completed)

Funding: Germanischer Lloyd (Germany)
Duration: 2012-2013 (24 months)
Project Leader: NTUA-SDL (Greece)
Partners: Germanischer Lloyd (Germany)
Principal Invest.: Prof. A. Papanikolaou (NTUA-SDL)

72) SHOPERA - Energy Efficient Safe Ship Operation (running)

Funding: DG Research – FP7 4th call
Duration: 2013-2016 (36 months)
Project Leader: NTUA-SDL (Greece)
Partners: NTUA-SDL (GR) coordinator, GL (GER), DNV (NOR), LR (UK), RINA (IT), MARINTEK (NO), IST (PT), SU (UK), UDE (GER), DUT (DEN), DTU (NETH), TUB (GER), ULJ (CRO), FSG (GER), VTT (FIN), EFVH (BEL), DANAOS (GR), FOINIKAS (GR), CALMAC (UK), NAP (GR), CEHIPAR (SP)
Coordinator (NTUA-SDL): Prof. A. Papanikolaou

73) EMSA III – Assessment of the acceptable and practicable risk level of passenger ships related to damage stability (running)

Funding: European Maritime Safety Agency
Duration: 2013-2015

Partners: DNV (coordinator, NOR), GL (GER), SSRC (UK), NTUA-SDL (GR), EUROYARDS, Knud Hansen (DK), UNITS (IT), RCCL (UK), CAR (UK), NAPA (FIN), COLOR LINE (NOR), STENA (SWE)

Coordinator (NTUA-SDL): Prof. A. Papanikolaou

74) HOLISHIP – Holistic Optimisation of Ship Design and Operation for Life Cycle

Funding: European Commission, Horizon 2020 – 2nd call

Duration: 2016-2020

Partners: HSV A (coordinator, GER) + 40 European Partners

Coordinator (NTUA-SDL): Assoc. Prof. G. Zaraphonitis

Co-Coordinator (HSV A/NTUA-SDL): Prof. A. Papanikolaou

Total externally funded research project contracts 2003-2013: 14.63 Mio EUR

(see separate list of project contracts)

12. Educational Work (appointments) :

4.1970-2.1973	Student Assistant (Tutor), Chair of Ship Theory, Tech. Univ. Berlin
2.1973-2.1978	Instructor, Chair of Ship Design, Tech. Univ. Berlin
8.1981-7.1982	Assoc. Professor of Ocean Engineering, Univ. of Hawaii
12.1982-12.1987	Lecturer, Theoretical Methods of Ship Hydrodynamics, Tech. Univ. Berlin
8.1984-7.1985	Assoc. Professor of Ocean Engineering, Univ. of Hawaii
6.1985-3.1988	Assoc. Professor of Naval Architecture, Chair of Ship Design, Nat. Tech. Univ. of Athens
3.1988-today	Full Professor of Naval Architecture, Division of Ship Design and Maritime Transport, Director of Lab. of Ship Design (NTUA-SDL), Nat. Tech. Univ. of Athens
1991-1994	Invited Visiting Professor at the Universities of Osaka (JAPAN), 5.1991 and 12.1993-3.1994 Hamburg (GERMANY), 9.1993-10.1993 Berlin (GERMANY), 10.1993-11.1993
1999-2000	Invited Visiting Professor at the Universities of Osaka (Japan), 11.1999-12.1999 Strathclyde (United Kingdom), 1.2000-2.2000 Berlin (Germany), 3.2000-4.2000
2007-2008	Invited Visiting Professor at the Universities of Osaka (Japan), 3.2008-4.2008 Hawaii (USA), 5.2008-6.2008 Berlin (Germany), 12.2007-1.2008
2013	Invited Guest Professor at Osaka Prefecture University January-February 2013

13. Supervised academic Theses at NTUA (number of) :

(See separate lists)

Dipl.-Eng & MSc theses: >180

Dr.-Eng theses: 7 (completed), 3 (running)

Completed Dr.-Eng. Theses (supervised at NTUA): 7

1. George Zaraphonitis (1990), 'Second-order theory of motions and loads of arbitrarily shaped 3D bodies in waves'.
2. Elias Kariambas (1996), 'Computer-aided design methodology of merchant ships for the needs of Greek shipyards'.
3. Dimitris Spanos (2002), 'Simulation of flooded ship motion in waves and assessment of Ro-Ro passenger ship behavior'.
4. Evangelos Boulougouris (2003), 'Optimization of ships with respect to survivability after damage with emphasis on Ro-Ro passenger and naval ships'.
5. Eleftheria Eliopoulou (2005), 'Impact of the new probabilistic damage stability regulations on the design of ships (cargo and passenger ships)'.
6. Diana Gkohari (2010), 'Ship optimization in the frame of integrated modal transport systems'.
7. Shukui Liu (2011), 'Numerical simulation of large amplitude ship motions in waves and application to ship design and safe operation'.

External PhD examiner (abroad): 14

1. *Gerd Holbach*, Hydrodynamic Optimization of SWATH Ships, Tech. Univ. Berlin, 1994.
2. *Andrzej JASIONOWSKI*, AN INTEGRATED APPROACH TO LIMIT STATE PERFORMANCE ASSESSMENT, Univ. of Strathclyde, 2001.
3. *Marie Lützen*, Ship Collision Damages, Denmark's Tech. Univ., 2002
4. *Erik Sonne Ravn*, Probabilistic Damage Stability of Ro-Ro Ships, Denmark's Tech. Univ., 2003
5. *Jörn Hinnenthal*, Robust PARETO – Optimum Routing of Ships utilizing Deterministic and Ensemble Weather Forecasts, Tech. Univ. Berlin, 2007
6. *Pekka Ruponen*, Progressive Flooding of a Damaged Passenger Ship, Helsinki Univ. of Technology, 2007.
7. *Joonyun Kang*, TIME DOMAIN MATHEMATICAL MODEL FOR MANOEUVERING SIMULATION IN A WAVE, Univ. of Strathclyde/Glasgow, 2009
8. *Gonzalo Tampier Brockhaus*, HYDRODYNAMIC DESIGN OF SHIP BULBOUS BOWS USING LONG-TERM SIMULATIONS, Tech. Univ. Berlin, 2010
9. *Clemens Strasser*, BEHAVIOR OF DAMAGED SHIPS DURING PROGRESSIVE FLOODING, Univ. of Strathclyde/Glasgow, 2010
10. *Chadi Khaddaj-Malla*, AN EXPERIMENTAL STUDY OF THE DYNAMIC BEHAVIOR AND SURVIVABILITY OF DAMAGED PASSENGER SHIPS, ECOLE CENTRALE NANTES, UNIVERSITE DE NANTES, 2010
11. *Jinzhu Xie Nan Xie*, HYDRODYNAMIC ANALYSIS OF AIR ASSISTED VESSELS, Univ. of Strathclyde/Glasgow, 2012
12. *Hendrik Dankowski*, A Fast and Explicit Method for Simulating Flooding and Sinkage Scenarios of Ships, Tech. Univ. Hamburg-Harburg, 2013
13. *Martin Schreuder*, Development, Implementation, Validation and Applications of a Method for Simulation of Damaged and Intact Ships in Waves, Chalmers University, Gothenburg, February 2014.
14. *Teemu Manderbacka*, "Fast simulation method for transient flooding of a ship", Aalto University, November 2015.

15. *Jose Miguel dos Santos Sousa Rodrigues*, "Behaviour of Damaged Ships Subjected to Flooding, Univ. de Lisboa, Instituto Superior Tecnico, June 2016.

14. Published Work (number of) :

(see, separate detailed List of Publications)

Type	No	Notes
academic theses (incl. major study project theses)	5	
self-contained books	5	
chapters of books	9	
lectures notes	19	
edition of books and conference proceedings, CD ROMS	19	
papers in peer reviewed scientific journals	87	
papers in international conferences (full paper review)	177	
papers in international workshops (reviewed extended abstracts)	46	
invited lectures/surveys	43	
technical research reports	117	
invited scientific & technical articles	42	
SUM	569	Ref. Date: Jan 17, 2017
Google Scholar		Ref. Date: Jan 17, 2017
<i>Citations</i>	1647	906 (since 2012)
<i>h index</i>	19	14 (since 2012)
<i>i 10 index</i>	54	23 (since 2012)
RG Index	28.94	Ref. Date: Jan. 17, 2017