CURRICULUM VITAE

1. Name of the applicant in full — TRILOCHAN SAHOO

2. Date and place of birth — 1st February,1967
Pashania, Cuttack, ORISSA

3. Address with telephone/Fax/email etc.

(a) Official

Prof. Trilochan Sahoo
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(b) Residential

Qr. No. A-156, IIT Kharagpur
Kharagpur–721302, Dist : West Medinipur
West Bengal, INDIA

4. Applicant's field of specialization — Coastal Hydrodynamics, Hydroelasticity, Boundary value Problems

5 Academic Qualifications (Bachelor's Degree onwards)

Sl. No	Degree	Subject	Class/Division	Year	University
1	PhD*	Mathematics		1996	IISc,Bangalore
2	MSc	Mathematics	1st	1989	UTKAL,ORISSA
3	B.Sc(Hon's)	Mathematics (Main) Physics, Chemistry	1st	1987	UTKAL,ORISSA

*Thesis Title: Fourier Analysis and Allied Methods in Problems of Scattering and Radiation of Water Waves

6. Administrative Experience

Sl. No	Position held	Organisation	Period
1	Associate Dean (HR)	IIT Kharagpur	1st January-31st December, 2020
2	PIC, HR training & Developments (non-faculty)	IIT Kharagpur	1st February, 2017- 31st December, 2019
3	Head of Department	Dept. of Ocean Engng & Naval Architecture, IIT Kharagpur	1st October, 2013 to 30th September, 2016
4	Research Coordinator	OASTC, IIT Kharagpur (A research Cell of MoES, Govt. of India)	10th June, 2009 to 23rd July, 2013
5	Coordinating-Warden (Mess)	Hall Management Center, IIT Kharagpur	9th June,2009 to 8th June,2013
6	Warden	V. S. Hall of Residence, IIT Kharagpur	1st Oct.-2007 to 24th June,2009
7	Asst.Warden	BC Roy Hall of Residence, IIT Kharagpur	5th Oct,2005 to 30th Sep., 2007
		V. S. Hall of Residence, IIT Kharagpur	4th July-5th Oct,2005

7. Research/teaching Experience

Organization	Designation	Period
Dept. of Ocean Engineering & Naval Architecture, IIT Kharagpur, INDIA	Professor (Higher administrative grade)	18th August-2016 - Till date
	Professor	6th August, 2010 – 17th August, 2016
	Assoc. Professor	9th August, 2004 – 5th August, 2010
	Asst. Professor	30th Oct. 2000 to 9th Aug, 2004
Dept. of Mechanical Engineering, The University of Hong Kong Hong Kong	Post-Doctoral Fellow (University Fellowship)	29-09-1997 to 28-09-2000
Dept. of Mathematics IISc Bangalore, INDIA	Research Associate (CSIR)	03-04-1996 to 19-09-1997
	Sr. Res. Fellow (UGC)	01-08-1993 to 02-04-1996
	Jr. Res. Fellow (UGC)	01-08-1991 to 31-07-1993

8. Foreign Assignments

Sl. No	Country	Period of visit	Duration of visit	Purpose
1	Hong Kong	28th September, 1997 to 27th Sep, 2000	Three years	Post-doctoral fellow
2	France	20th May to 5th June, 1999	Two weeks	Int'l Conference (ISOPE-99)
3	China	5-11 Dec,1999	One week	Int'l Conference (ACFM-8)
4	USA	20th May to 7th June, 2000	Three weeks	EM-2000 (Loc: Texas University) ISOPE-2000 (Loc: Seattle)
5	Japan	6-13 Sep. 2000	One week	Int'l Conf (ICHD-2000)
6	Korea	17th – 23rd June,2005	One week	Int'l Conf (ISOPE-2005)
7	UK	31st March to 6th April,06	One week	Int'l Workshop (IWWWFB - 2006)
8	Switzerland	14-21 July, 2007	One week	Int'l Conference (ICIAM-2007)
9	Australia	24 – 30 Aug, 2008	One week	Int'l Conference (ICTAM-2008)

9.. **Supervision of research/project**

Sl. No	UG/PG level	No. Completed	No. in progress
1	BTech/MSc	40	-
2	5th Year Dual Degree MTech /Two Years MTech	35	2
4	Ph.D	15	3
5	Post-Doctoral Fellow/Research Associate	09	1

10. Associate Editor and Member of Editorial Boards of International Journals

- Ocean Engineering and Marine Energy, Springer (Associate Editor)
- Frontiers in Energy Research (Review Editor)
- Applied Ocean Research, Elsevier Inc. (Member, Editorial Board)
- Proc. IMech E, Part M, UK: Journal of Engineering for Maritime Environment, Sage Publication, UK (Member, Editorial Board)
- Water (MDPI), Special Issue – Guest Editor
- Fluids (MDPI), Special issue – Guest Editor
- J of Marine Science and Engineering (MDPI), Special Issue – Guest Editor

11. Member of Board of Studies/expert committee

- Indian Maritime University, Chennai
- Defense Institute of Advanced Technology (Dept. of Mechanical Engineering), PUNE
- Recruitment/assessment committee member of DRDO Scientist

12. Courses Developed

- Developed a video course on Marine Hydrodynamics in 2012 (under the NPTEL Program of MHRD)
- Coordinator of a one-week video course on Computational Methods in Hydroelasticity through the GIAN program of MHRD during 12-16, December 2016 (International Guest faculty – A/Prof. Mike Meylan of The University of Newcastle, Australia).
- Coordinator of a one-week video course on the Analysis and Design of Coastal Structures through the GIAN program of MHRD during 10-14, December 2018 (International Guest faculty - Dr S. Neelamani, Senior Research Scientist, Coastal Management Program, Kuwait Institute for Scientific Research, Kuwait.
- Coordinator of a one-week course on time-domain analysis of hydroelasticity problems (Int'l guest faculty: Prof. M. H. Meylan of The University of Newcastle, Australia and Prof. Yury Stepanyants of the University of Southern Queensland during 9-13, December 2019. This program was sponsored by the Apex Committee of SPARC, MHRD, Govt. of India.
- Coordinator of a one-week course on Nonlinear problems in hydroelasticity (Int'l guest faculty: Prof. M. H. Meylan of The University of Newcastle, Australia and Prof. Yury Stepanyants of the University of Southern Queensland during 13-17 December 2021. This program was sponsored by the Apex Committee of SPARC, MHRD, Govt. of India.

13. Courses taught at UG/PG Level

- Marine Hydrodynamics (UG)
- Ocean Hydrodynamics (PG)
- Elements of Ocean Engineering (UG)
- Coastal Engineering (PG)
- Hydroelasticity (PG)
- Hydrostatic and Stability (UG-lab)
- Hydrodynamics Lab (PG)
- Design Problems in Ocean Engineering (PG)

14. Reviewer of journal and conference papers

- Advances in Mathematical Physics
- Applied Ocean Research
- Ocean Engineering
- Journal of Sound and Vibration
- Physics of Fluids
- J. Fluid Mechanics

- J of Engineering for the maritime environment, Proc. I Mech Engineers, UK
- Proc. Royal Society of London, Series A
- J. Eng. Mechanics
- J Eng Mathematics
- J Waterways, Port Coast and Ocean Engineering
- J.Fluids and Structures
- Journal of Ships and Offshore Structures
- Wave Motion
- Int'l Journal of Offshore and Polar Engineers
- IMA J of Appl. Mathematics
- J. Applied Mathematics and Computing
- Engineering Analysis with Boundary Elements
- J. of Mathematical and Computer Modeling
- Int'l Conference organized by ISOPE
- J of Marine Science
- J Marine Science and Application
- J. IISc, Bangalore
- Quarterly Journal of Mechanics and Applied Mathematics
- Meccanica
- ISTAM and other national symposiums regularly
- Defense Science Journal, DRDO
- Indian J. of Pure and Applied Mathematics

15 **List of past/present collaborators**

- Prof. A. Chakrabarti, Former Professor, Dept. of Mathematics, IISc, Bangalore
- Prof. A. T .Chwang, Former Professor. Dept. Mech. Engineering, The University of Hong Kong
- Prof. C. O. Ng, Dept. Mech. Engineering, The University of Hong Kong
- Prof. Carlos Gaudes Soares, The University of Lisbon, Portugal
- Prof. B. N. Mandal, Former Professor, PAMU, ISI, Kolkatta
- Prof. S. Banerjea, Dept. of Mathematics, Jadavpur University
- Prof. A. T. Chan, The University of Hong Kong
- Prof. Michael H. Meylan, The University of Newcastle, Australia
- Prof. Yury Stepanyants, University of Southern Queensland, Australia
- Dr. S. Neelamani, Kuwait Institute of Scientific Research, KUWAIT
- Dr. Dasharatha Achani, Mechocean Engineering Solutions, Norway
- Dr. M. M. Lee, Dept. Mech. Engineering, The University of Hong Kong
- Dr.T. L. Yip, Hong Kong Poly-technique University
- Dr. S. R. Manam, Dept. of Mathematics, IIT, Madras
- Dr. S. C Martha, Dept. of Mathematics, IIT, Ropar
- Dr. R B. Kaligatla, Dept. of Mathematics, IIT(ISM) Dhanbad, Jharkhand
- Dr. Harekrushna Behera, SRM University, Chennai
- Dr. K. G. Vijay, Ocean Engg Dept, IIT Madras
- Dr. V. Venkateswarlu, Civil Eng. Dept., NIT Srinagar
- Dr. C. S Nishad, Pandit Deendayal Energy University, Gandhinagar
- Dr. Santu Das, Institute of Advanced Study in Science, Guwahati, ASSAM
- Dr. Santanu Koley, BITS PILANI, Hyderabad CAMPUS
- Dr. Ayan Chanda

16. Short-term visitors during 2011-2020

a. Mr. Kalpataru Palai and Meghasan Senapati of VSSUT, Burla and Mr. Ojaswai Kumar Sahoo of NIT, Rourkela pursued summer internship during May - June, 2014 under my direct supervision at IIT Kharagpur.
b. Dr. Vemula Ramakrishna Reddy, temporary lecturer at Pondicherry University, made a one month visit during 1st – 31st August, 2014 under CTS visitor's program of IIT Kharagpur

c. Dr. Rumpa Chakrbaborty, Research Scholar of ISI Kolkata made a one month visit during 1st – 31st December, 2014. The visit was sponsored through NRB project (Code:PMH).
d. Dr. R. B. Kaligatla, Asst. Prof. IIT(ISM) Dhanbad made a short visit during 14-22, May, 2015 through CPDA grant for research collaboration.
e. Dr. Santanu Koley, SERB National PDF working at IIT Ropar, visited from 17th October, 2016 to 18th November, 2016 for academic interaction.
f. Ms. Saista Tabusam, research scholar of Applied Mathematics Department, ISM Dhanbad (Short-term CTS visitor durring 12-25, December, 2016).
g. Ms. Manisha, research scholar of Applied Mathematics Department, ISM Dhanbad (Short-term CTS visitor during 12-25, December, 2016).
h. Dr. Ramnarayan Mondal, Ex-PDF, The University of Tokyo, Japan (Short-term CTS visitor during 9-22, May 2017).
i. Mrs. Sofia Singla, R/S, IIT Ropar (Short-term CTS visitor during 7- 20, December, 2017).
j. Ms. Saista Tabusam, research scholar of Applied Mathematics Department, ISM Dhanbad (Short-term CTS visitor during 9-22, December, 2017).
k. Ms. Manisha, research scholar of Applied Mathematics Department, ISM Dhanbad (Short-term CTS visitor during 9-22, December, 2017).
l. Dr. R. B. Kaligatla, Asst. Prof. IIT(ISM) Dhanbad made a two weeks visit during 9-22, December, 2017 through CTS visitors program of IIT Kharagpur.

17. Dept. activities

- Head of the Department (1st October, 2013 – 30th September, 2016)
- Professor-in-charge facility development, building and infrastructure (2004-till date)
- Prof. In-Charge, Dept. report and erp since 1st October, 2016
- Member of Dept. administrative committee since 1st October, 2016
- Chairman, Dept. Purchase Committee (2005-2007)
- Professor-in-Charge Dept. Time Table (2001-2005)
- Faculty adviser for the BTech/MTech Students)
- Professor-in-Charge of Dept. horticulture/gardening (2001-till date)
- Professor-in-Charge reports etc.(2003-2005)
- Professor-in-charge library(2001-2005)
- Member of Dept. Academic Committee July2003-Till date
- Acted as research scholar coordinator during 2001-2013.
- Reviewed UG/PG syllabus for proper grouping of electives (2004-2005)

18. Ph.D Students

Sl. No.	Name and nature of fellowship	Thesis Title	Year of award of	Present Position
1	J Bhattacharjee (CSIR-individual)	Fourier analysis and allied methods in wave-structure interaction problems with application in hydroelasticity	2008	Former Asst. Professor IIT Kharagpur, India
2	P. Suresh Kumar (Institute scholar)	Studies on a class of vertical submerged and floating breakwaters in a two-layered fluid	2008	General Secretary, Sri Chaitanya Saraswat Institute, Bengaluru, India
3	D.Karmakar (NRB Project & CSIR-SRF)	Fourier analysis and allied methods in the hydroelastic analysis of floating structures	2009	Asst. Professor Dept. of Appl. Mechanics NIT Surathkal, INDIA
4	S C Mohapatra (NRB Project)	Mathematical techniques in the hydroelastic analysis of floating and submerged flexible structures	2013	Post-Doctoral Fellow The University of Lisbon
5	Ramnarayan Mondal (NRB Project)	Mathematical techniques for wave interaction with floating flexible structures in three-dimensions	2014	Asst Professor GITAM University Vishakhapatnam

6	S. K. Mohanty (UGC-NET)	Mathematical techniques for time-dependent hydroelastic analysis of floating structures	2014	Asst. Professor Dept. of Mathematics, VIT Vellore
7	Harekrushna Behera (MoES Project)	Mathematical techniques for gravity wave interaction with porous and flexible structures	2015	Assoc. Professor Dept. of Mathematics SRM University, Chennai, INDIA
8	Sourav Mandal (CSIR-Individual)	Fourier analysis and allied methods in the hydroelastic analysis of flexible porous structures	2015	Scientist C, Ocean Engineering Divn, NIO, GOA, INDIA
9	Santanu Koley (CSIR-Individual)	Integral equation and allied methods for wave interaction with porous and flexible structures	2016	Assoc. Professor Mathematics Dept. BITS PILANI, Hyderabad Campus
10	K G Vijay (Institute scholar)	Surface gravity wave interaction with permeable coastal structures	2020	Asst. Professor Ocean Engg Dept., IIT Madras
11	Prakash Kar (Institute scholar)	Boundary integral equation and allied methods for Bragg scattering of surface gravity waves due to trenches and coastal structures	2020	Asst. Professor SRMIST, Chennai
12	Piyush Mohapatra (Institute scholar)	Hydrodynamic performance of oscillating water column ocean wave energy converters in the presence of seabed profile variations	2022	Modelling Scientist Donaldsen Company Inc
13	D Suresh Kumar (Institute scholar)	Studies on the surface gravity wave interaction with a subsea pipeline buried in the seabed	2022	Tecnip, Chennai
14	Susam Boral CSIR-NET (JRF)	Surface gravity wave interaction with floating and submerged plates resting on an elastic foundation within the framework of blocking dynamics	2022	Post-Doctoral Fellow, College of Shipbuilding Engineering, Harbin Engineering University, Harbin, China
15	Sunil Chandra Barman (Institute scholar)	Fourier analysis and allied methods for wave interaction with floating structures within the framework of blocking dynamics	2023	Lecturer, Govt. College of West Bengal
16	Amar Kumar Mohapatra (Institute scholar)	Submitted Thesis	April 2023	Working in an overseas MNC
17	Pawan Negi SRF(Institute Scholar)	Continuing		Joined in September 2019
18	Neha Bisht UGC-NET (SRF)	Continuing		Joined in September 2020

PD

19.Supervision of Post-Doctoral Fellows

Sl.	Name	Funding Agency	Period	Present Position
1	S. R. Manam	NBHM,DAE*	Sep, 2003 to Dec, 2003	Professor IIT Madras
2	J Bhattacharjee	NBHM,DAE	Sep, 2007 to May, 2008	Former Asst. Professor IIT Kharagpur

3	S C Mohapatra	NBHM,DAE	July, 2013 -Oct, 2013	FCT Researcher The University of Lisbon
4	Ramnarayan Mondal	NBHM,DAE	May 2014–Dec 2014	Asst. Professor GITAM University, Vishakhapatnam
5	Ramanababu Kaligatla	IIT Kharagpur	March, 2014 -Dec, 2014	Assoc. Professor IIT (ISM) Dhanbad
6	Santu Das	IIT Kharagpur	Feb, 2015 to July, 2017	Asst. Professor IASST, Guwahati
7	Bishnupriya Sahoo	RA-DST Project	20th March, 2018-19th March, 2019	Research Scientist Yantai Institute of Coastal Zone Research, China
8	Smriti Nath	RA-DST Project	19th August 2019 – 18th August 2021	Asst. Professor Techno India, Kolkata
9	Prakash Kar	RA-DST Project	1st November 2021 -30th April 2022	Asst. Professor SRMIST, Chennai
10	Ayan Chanda	NPDF-SERB	6th September 2022-till date	Continuing

*NBHM, DAE - National Board for Higher Mathematics, Dept. of Atomic Energy, Govt. of India

20. Sponsored/consultancy projects

Sl. No	Project Title	Role and project Code	Funding Agency	Amount in lakhs of rupees	Period
1	Wave interaction with floating structures in the presence of uniform current	PI (ISIRD)	IIT Kharagpur	1.15	Oct. 2001- March 2003
2	A study on the interaction of surface-waves with floating and submerged-flexible structures	PI (FWS)	Naval Research Board (DRDO)	16.81	March-2003- Dec. -2007
3	Hydroelastic Analysis of floating and submerged flexible structures	PI (HAF)	Naval Research Board, DRDO	18.048	Feb, 2008-Feb.2014
*4	OASTC, IIT Kharagpur (As per MoU, OASTC runs as a project)	PI (OST)	Ministry of Earth Sciences	362.63356	10th June, 2009-23rd July, 2013
5	National Programme in Marine Hydrodynamics	Co-PI (PMH)	Naval Research Board, DRDO	255.00	Nov. 2007- Dec, 2014
6	Development of Cage for Mariculture through Numerical and Physical Modelling	Co-PI (CNP)	Ministry of Earth Sciences	47.762	2010-2015
7	Coastal Protection in the Mahakalpara area of Kendrapara, district, Orissa	Co-PI (CPM))	Ministry of Earth Sciences	44.17	2010-2015

8	Vulnerability and Risk Assessment due to Various Environmental Drivers in a Climate Change Scenario over Eastern India (CoE on Climate Change)	Co-PI (VDI)	DST, Climate Change Program	690.36	1st May 2017 to 30th September 2023
9	Study on Wave Past Porous Structures for Creation of Tranquility Zone Along the Coast	PI (WPZ)	DST, Climate Change Program	47.406	1st May 2017 to 30th April 2022
10	Flexural-Gravity Waves: A Complete Theoretical Development	PI (FWT_SKI)	Apex Committee of SPARC, MHRD	70.10	11th June, 2019 to 30th September 2023
11	Vulnerability and Risk Assessment due to Various Environmental Drivers in a Climate Change Scenario over Eastern India (CoE on Climate Change)	Co-PI (VDI-3237_ZBSA)	DST, Climate Change Program	100.00	10th March 2023 to 30th Sep 2023
12	An integral equation approach to a class of water wave scattering problems	PI (ACW)	SERB, DST	17.61971	6th September 2022 to 21st March 2024

***Fund received by OASTC IIT Kharagpur during 2010 and 2013 (my tenure as a research coordinator)**

Sl. No	Name of Project/Sanction Order	Amount in lakhs
1	Operational Expenses 2007-2008	4.39692
2	No. MOES/11-MRDF/4/UN197 dated 6th August, 2010 Sanction Order (30/2010-2011)	60.00
3	No. MOES/11-MRDF/4/10/UNI/97 dated 2nd November, 2010 (Operational Expenses of OASTC IIT Kharagpur)	6.66856
4	No. MOES/11-MRDF/1/4/P/10 dated 23rd November, 2010 (Sanction of five projects to OASTC IIT Kharagpur)	196.96350
5	No. MOES/11-MRDF/4/UN197 dated 17th February, 2011 Sanction Order (58/2010-2C011)	13.60124
6	No. MOES/11-MRDF/4/10/UNI/97 dated 9th June, 2011 (Operational Expenses of OASTC IIT Kharagpur)	4.97934
7	Project from NIOT processed through OASTC IIT Kharagpur (Sanction No. NIOT/F&A/Proj/IIR&D/2k11 dated 16th August, 2011)	76.02400
Total amount sanctioned (From MoES to OASTC, IIT Kharagpur during 2010 and 2013)		362.63356

20a. Roles in different outreach programs (Conference/workshop/short-term course/training programs)

Sl No	Title of the program	Nature of program	Sponsoring agency	Role	Duration
34	Nonlinear Problems in Hydroelasticity	Short-term Course	SPARC Apex Committee, MHRD, Govt. of India	Principal Coordinator	13-17, December 2021
33	Time domain analysis of hydroelastic problems	Workshop	SPARC Apex Committee, MHRD, Govt. of India	Coordinator	9-13, December, 2019
32	Int'l Conference on Ship and Ocean Technology (ICSOT-2019)	Biennial International Conference	Jointly organized by IIT Kharagpur and RINA, UK	Organizing Committee Member	7 – 8, November, 2019

31	Design and Analysis of Coastal Structures	Short-term Course	GIAN PROGRAM of MHRD	Coordinator	10-14, December, 2018
30	Introduction to water waves and coastal processes	Training program for senior executives of ONGC	ONGC (organized by IIM Kolkatta)	Resource person (delivered six hours talks)	7-8, March, 2018
29	Int'l Conference on Ship and Ocean Technology (ICSOT-2017)	Biennial International Conference	Jointly organized by IIT Kharagpur and RINA, UK	Organizing Committee Member	7 – 8, December, 2017
28	Computational Methods in Hydroelasticity	Short-term course	GIAN PROGRAM of MHRD	Principal Coordinator	12-16, December 2016
27	4th International Conference on Ship and Offshore Technology, India (ICSOT-2015)	Biennial International Conference	Jointly organized by IIT Kharagpur and RINA, UK	Principal Coordinator	10-11, Dec -2015
26	UK-India Cooperation on Tidal Energy Research	Workshop	Dy British High Commission, Kolkatta & IIT Kharagpur	Principal Coordinator	11-12, August, 2015
25	Coastal Environment and Wave Energy	Workshop	Dy British High Commission, Kolkatta & IIT Kharagpur	Principal Coordinator	16th February, 2015
24	Celebration of Green Earth Day-2013 & Workshop on recent trends in Ocean Science and Technology	Workshop	MoES, Govt. of India (organized under the aegis of OASTC, IIT Kharagpur	Principal Coordinator	27th April, 2013
23	Celebration of Green Earth Day-2012 & Workshop on Integrated Coastal Zone Management	Workshop	MoES, Govt. of India (organized under the aegis of OASTC, IIT Kharagpur	Principal Coordinator	22nd April, 2012
22	Water Waves and Floating Bodies	Workshop	MoES, Govt. of India (organized under the aegis of OASTC, IIT Kharagpur	Principal Coordinator	25-26, November, 2011
21	Celebration of Green Earth Day-2011 & Workshop on recent developments in Ocean Science and Technology	Workshop	MoES, Govt. of India (organized under the aegis of OASTC, IIT Kharagpur	Principal Coordinator	22nd April, 2011
20	Coastal Processes and Coastal Structure Design	Training program	ADANI, Gujarat	Co-coordinator (Delivered 15 lectures)	28-30, Jan, 2016 19-20, Feb, 2016
19	Numerical Ocean Wave Modelling	Workshop	VIT, Vellore	Co-Coordinator (Delivered 7 lectures)	29-30, April, 2016
18	Offshore and Coastal Engineering	Short-term course	AICTE, New Delhi	Resource Person	13-17, July, 2015
17	Numerical Ocean Hydrodynamics	Short-term course	AICTE, New Delhi	Resource Person	8-13, June, 2015
	Integrated training module	Training	Govt. of Gujarat	Resource	20-27, Nov, 2014

16	under ICZMP with Gujarat perspective	program	(offered to four batches of Govt. officers)	Person (24 lectures to four batches)	14-21, July, 2014 20-27, Feb, 2014 1-8, January, 2014
15	Integrated training module under ICZMP with West Bengal perspective	Training program	Govt. of West Bengal (offered to a batch of Govt. officers)	Resource Person (Delivered six lectures)	21-26, April, 2014
14	3rd International Conference on Ship and Offshore Technology, India (ICSOT-2013)	Biennial International Conference	Jointly organized by IIT Kharagpur and RINA, UK	Organizing Committee Member	12-13, December, 2013
13	ICTACEM-2014	International Conference	Dept. of Aerospace Engng, IIT Kharagpur	Organizing Committee member & session Chairman	29-31, Dec, 2014
12	58th conference of ISTAM	International Conference	IIEST, Shibpur, Kolkata	Session Chairman	18-21, December, 2013
11	2nd International Conference on Ship and Offshore Technology, India (ICSOT-2011)	Biennial International Conference	Jointly organized by IIT Kharagpur and RINA, UK	Organizing Committee Member	8-9, December, 2011
10	ICTACEM-2010	International Conference	Dept. of Aerospace Engng, IIT Kharagpur	Organizing Committee member & session Chairman	27-29, Dec, 2010
9	Regional Ocean Modelling and Prediction: A challenge to the Scientists	Workshop	NRB, NEW Delhi (organized under the aegis of OASTC, IIT Kharagpur	Member of organizing Committee & Resource person	7-10, December, 2010
8	Hydrodynamics of the coastal environment	Workshop	NRB, NEW Delhi (organized under the aegis of OASTC, IIT Kharagpur	Member of organizing Committee & resource person	13-15, December, 2010
7	1st International Conference on Ship and Offshore Technology, India (ICSOT-2009)	Biennial International Conference	Jointly organized by IIT Kharagpur and RINA, UK	Organizing Committee Member	10-11, December, 2009
6	Int'l Conference on Vibration Problems (ICoVP-2009)	International Conference	Dept. Mech Engg, IIT Kharagpur	Organizing Committee Member & session Chairman	19-22 Jan, 2009
5	50th Conference of Indian Society of Theoretical and Applied Mechanics (ISTAM-2005)	International Conference	Departments of Mech Engg & Mathematics, IIT Kharagpur	Organizing Committee Member & session Chairman	14-17, December 2005
4	3rd Int'l Conference in Ocean Engineering (ICOE-2009)	International Conference	Dept. of Ocean Engg, IIT Madras	Member of technical Program Committee & session	1-5, February, 2009

				Chairman	
3	Computational and Experimental Marine Hydrodynamics (MARHY-2016)	Biennial International Conference	Jointly organized by IIT Madras and RINA, UK	Member of technical committee	24-25, November, 2016
2	International Conference & Instructional Workshop on Industrial Maths (ICIWIM-2002)	International Conference	Departments of Mathematics, IIT Bombay	Organizing Committee Member	2-6, December, 2002
1	Int'l Conference on Ship and Ocean Technology (SHOT-2002)	International Conference	Departments of OE & NA, IIT Kharagpur	Organizing Committee Member	16 – 18, December, 2002

21. Institute activities

- During 2017-2020, served as a member of various screening/shortlisting/assessment/written test committees of the Institute for recruitment of Software/Network Engineers, Asst. Registrar, Deputy Registrar, Executive Officer and Physical training Instructor, assessment committee member for senior technical superintendent, member of trade test committee for Junior technical superintendent, member of the committee for framing policy for outsourced manpower in 2016-2017, member of written test committee for the post of (i) junior/senior executives, (ii) Junior executive, Junior accounts officer, junior assistant, Asst. Security officer and security inspector etc.
- Served as the Research Coordinator, Ocean and Atmospheric Science & Technology Cell (OASTC), IIT, Kharagpur (10^{th} June 2009 to 23^{rd} July 2013)
- Senate nominee, member of merit cum mean (MCM) Scholarship committee, 2011-2013
- Doctoral Scrutiny Committee member for a few students (OE & NA, CIVIL, HSS. ME, Math, CORAL and Physics, School of Water Resource, Aerospace Engg).
- Member of the expert panel for recruitment of Asst. Registrar and Deputy Registrar during 2011-2012.
- IIT-JEE and GATE Institute representative to conduct the examination at various centres continuously during 2001-2010. Acted as Institute Rover for JEE-Advance -2022.
- Institute representative in JAM-2005
- Chief-Coder, IIT-JEE-2010
- IIT-JEE examiner (Mathematics) during 2001-2005.
- Coder for GATE-2006 and JEE-2006, JEE-2008-2010
- Faculty counselor – JEE-2006 and JEE-2007, GATE-2007
- Member of curriculum development for CORAL in 2006-2007

22. Hall/Student activities at IIT Kharagpur

- Coordinating Warden (Mess), Hall Management Center, IIT, Kharagpur (9^{th} June, 2009-8^{th} June 2013)
- Member of the committee to review the role of Hall clerk in Halls of residences, 2007
- Member of the committee to review the fee structure in the Hall of residences, 2008-2009
- Member of the anomaly committee for Hall employees
- Chairman, Reunion Dinner (2009, 2010, 2011 and 2012), food committee, IIT Kharagpur
- Chairman of the committee to consolidate the surplus fund in Halls of residence -2010
- Warden, Vidyasagar Hall of Residence (1^{st} Oct.-2007 –24^{th} June, 2009)
- Asst. Warden, BCROY Hall of Residence (from 5^{th} October-05 to 30^{th} September 2007)
- Asst. Warden, Vidyasagar Hall of Residence (from 4^{th} July-05 to 5^{th} October-05)
- Acted as a member of the night vigilance team (for hostels) in the academic years 2002-2005

23. Community Services

- President, Kalinga Samaja, IIT, Kharagpur, 2003-2004
- Secretary, Technology Club, IIT, Kharagpur during 2004-2005
- Secretary, Dandakaranya Security Association, IIT, Kharagpur during 2004-2005.
- Secretary, SMILE (A school for mentally retarded kids) Kharagpur, 2004-2008
- President, Ratha –Yatra Committee, Sri Jagannath Mandir, Kharagpur, 2004-2009
- Honorary Secretary, Sri Jagannath Temple, Kharagpur, June 2009 – 2012
- Member (parent's nominee) of Vidyalaya Management Committee (VMC), Kendriya Vidyalaya, IIT Kharagpur, 2014-2018

- President, Sri Jagannath Sishu Bikash Kendra, Sri Jagannath Mandir Complex, New Settlement, Kharagpur (2019-onwards)

24. Other professional and outreach program activities

a. Several Ph.D Thesis examiner of CUSAT, Kochin, Berhampur University, Utkal University, IIT Guwahati, Ravenshaw University, IIT(ISM) Dhanbad, BITS PILANI (Hyderabad Campus) and SRM University.

b. Several MS Thesis Examiners of IIT Kharagpur and IIT Madras

25. Fellowship/Membership of Professional Society

- Fellowship, West Bengal Academy of Science and Technology, INDIA since 2018
- Life Member, Odisha Mathematical Society
- Life Member, Indian Society of Theoretical and Applied Mechanics
- Life member, Calcutta Mathematical Society
- Life member, Indian Mathematical Society

26 Publication of Book/Book Chapter

a. **T. Sahoo**, "Mathematical Techniques for wave interaction with flexible structures **(IIT Kharagpur Monograph Series**)" pp.224, CRC Press, USA, 2012, C.I:26

b. D. Karmakar, J. Bhattacharjee and **T Sahoo**,"Contemporary approaches in the hydroelastic analysis of floating and submerged structures" Marine Technology and Engineering, Book edited by C G Soares, Y Garbatov, N Fonseca and A P Teixeira, Vol - 1, 461-478, CRC Press, USA, 2011, C.I.:03

27. Complete list of publications in standard refereed journals

Sl. No	Author's name as in the paper	Title of Paper	Journal's name	Vol., page & year of Publication	Impact Factor (I.F.) & Citation Index (C.I.)
1.	P Negi, P Kar, **T Sahoo** and M. H. Meylan	Flexural gravity wave interaction with an articulated heterogeneous plate within the paradigm of blocking dynamics	Physics of Fluids (AIP Publishing)	(Accepted)	I.F.: 4.64
2.	AK Mohapatra, **T Sahoo**	Bragg scattering of surface gravity waves by a submerged composite wavy porous plate	J Offshore Mech. and Arc. Eng (ASME)	(Accepted)	I.F.: 1.76
3.	S. Boral, S. C. Barman & **T. Sahoo**	Wave scattering by an array of moored floating flexible plates resting on an elastic foundation in the reference of blocking dynamics	Waves in Random and Complex Media, (Taylor and Francis Group)	DOI: 10.1080/17455030.2023.2225634	I.F.:4.051

4.	P. Mohapatra, KG Vijay, A. Bhattacharyya & **T. Sahoo**	Influence of distinct bottom geometries on the hydrodynamic performance of an OWC device	Energy (Elsevier Inc)	277, 127605 (2023)	I.F.: 9
5.	S Boral, **T Sahoo,** MH Meylan	Gravity wave interaction with an articulated submerged plate resting on a Winkler foundation	Applied Mathematical Modelling (Elsevier Inc)	113, 416-438 (2023)	I.F.:5.336 C.I.: 1
6.	K Trivedi, A Ray, A Krishnan, S Koley, **T Sahoo**	Hydrodynamics of OWC device in irregular incident waves using RANS model	Fluids (MDPI)	8 (27), 1-31 (2023)	I.F.: 1.95 C.I.: 1
7.	S Barman, S Boral, **T Sahoo**	Bragg scattering of flexural-gravity waves by a series of polynyas in the context of blocking dynamics	Physics of Fluids (APS)	35(1) 016601 (2023)	I.F:4.64 C.I.: 1
8.	Neha Bisht, Susam Boral, **Trilochan Sahoo**, MH Meylan	Triad resonance of flexural gravity waves in a two-layer fluid within the framework of blocking dynamics	Physics of Fluids (APS)	34 (11), 116606 (2022)	I.F:4.64 C.I.: 1
9.	AK Mohapatra, **T Sahoo**	Numerical investigation of diffraction and radiation of surface gravity waves by a rectangular structure over a stepped bottom with and without a vertical wall	Ocean Engineering (Elsevier Inc)	266 (4), 113007 (2022)	I.F.:5
10.	Prakash Kar, Harekrushna Behera, **Trilochan Sahoo**	Oblique long wave scattering by an array of bottom-standing non-smooth breakwaters	Fluids (MDPI)	7,352 (2022)	I.F.: 1.95
11.	V.Venkateswarlu, K. G. Vijay, C. S. Nishad and **T Sahoo**	Gravity Wave Scattering by Retrofitted Circular Breakwaters using Dual Boundary Integral Equation Method	Ocean Engineering (Elsevier Inc)	265, 112259 (2022),	I.F.:5

12.	CS Nishad, N Subramaniam, KG Vijay, **T Sahoo**	Bragg scattering of surface gravity waves by an array of surface-piercing variable porosity barriers	Journal of Waterways, Port, Coastal and Ocean Engineering (ASCE)	148(6) 04022021(1-11), 2022	I.F.:2.059
13.	P Negi, S Boral, **T Sahoo**	Scattering of long flexural gravity wave due to structural heterogeneity in the framework of wave blocking	Journal of Engineering Mathematics (Springer Verlag)	Vol. 135(1), 1-30 2022	I.F.:1.3
14.	Sofia S, Behera H, SC Martha, **Sahoo T**	Role of surface-piercing porous box for protecting a very large floating structure from wave attack	Journal of Offshore Mechanics and Arctic Engineering (ASME)	Vol. 144(4),041904 (2022)	I.F. 1.76
15.	S C Barman, S Das, **T Sahoo**, M H Meylan	Scattering of flexural-gravity waves due to a crack in a floating ice sheet in a two-layer fluid in the context of blocking dynamics	Physics of Fluids (AIP Publishing)	Vol. 34, 056602 (2022)	I.F:4.64 C.I.: 5
16.	D Suresh Kumar, KG Vijay, D Achani, Md R Sunny, **T Sahoo**	Wave-induced seepage force on a Buried pipe in the presence of a Floating structure, a study based on frequency-domain finite element analyses	Proc.Institution of Mech. Engineers UK, Part M:J. Eng. for the Maritime Environment, Sage Publication	236(2),1-14 https://doi.org/10.1177/14750902221096019 (2022)	I.F. 1.8
17.	P Negi, S Boral, **T Sahoo**	Scattering of long flexural gravity wave due to structural heterogeneity in the framework of wave blocking	Wave Motion (Elsevier Inc)	Vol. 112, 102949, (2022)	I.F: 2.174 C.I.: 5
18.	S Boral, S Das, **T Sahoo**, M Meylan	Blocking dynamics of capillary-gravity waves in a two-layer fluid in the presence of surface and interfacial tensions	Meccanica (Springer Verlag)	Vol. 57 (6), 1307-1335 (2022)	I.F: 2.538 C.I.: 1

19.	A. K Mohapatra and **T. Sahoo**	Surface gravity wave interaction with a submerged composite wavy porous plate attached to a vertical wall	Journal of Offshore Mechanics and Arctic Engineering (ASME)	Vol. 144 / 011904-1-12 (2022)	I.F:1.76 C.I: 2
20.	KG Vijay, S Neelamani, **T Sahoo**, K AI-Salem, CS Nishad	Scattering of gravity waves by a pontoon-type breakwater with a series of pervious and impervious skirt walls	Ships and Offshore Structures (Taylor and Francis Co)	Vol. 17(1), 130-142, (2022)	I.F: 1.934 C.I: 4
21.	S. Boral, **T. Sahoo** and Y. Stepanyants	Modulation instability of hydro-elastic waves blown by a wind with a uniform vertical profile	Fluids, MDPI	6(12), 458 (2021)	I.F: 1.95
22.	S Barman, S Boral, **T Sahoo** and M H. Meylan	Bragg scattering of long flexural gravity waves by an array of submerged trenches and the analysis of blocking dynamics	AIP Advances	11, 115308 (2021)	I.F:1.65 C.I: 10
23.	P Kar, S Koley, K Trivedi, **T Sahoo**	Bragg scattering of surface gravity waves due to multiple bottom undulations and a semi-infinite floating flexible structure	Water, MDPI	13 (17), 2349 (2021)	I.F:3.4 C.I.: 7
24.	R B Kaligatla, S Tabssum and **T. Sahoo**	Surface gravity wave interaction with a partial porous breakwater in a two-layer ocean having bottom undulations	Waves in Random and Complex Media, Taylor and Francis	10.1080/1745503 0.2021.1976878	I.F:4.05 C.I.: 13
25.	K. G. Vijay, V.Venkateswarlu and **T Sahoo**	Bragg Scattering of Surface Gravity Waves by an Array of Submerged Breakwaters and a Floating Dock	Wave Motion Elsevier Inc	106, 102807 (2021)	I.F: 2.174 C.I: 6

26.	D. Suresh Kumar, D. Achani and **T. Sahoo**	Nonlinear wave effects on the oscillatory pore pressure-induced forces on buried pipelines	Ships and Offshore Structures, Taylor's and Francis Co.	https://doi.org/10.1080/17445302.2021.1958547	I.F.:1.934
27.	S Boral, M H Meylan and **T. Sahoo**	Time-dependent Wave Propagation on a Variable Winkler Foundation with Compression	Wave Motion, Elsevier Inc.	106:102792 (2021)	I.F: 2.174 C.I: 5
28.	K. Panduranga, S. Koley and **T. Sahoo**	Surface gravity wave scattering by multiple slatted screens placed near a caisson porous breakwater in the presence of seabed undulations	Applied Ocean Research, Elsevier Inc.	111:102675 (2021)	I.F: 3.761 C.I: 13
29.	B. Sahoo, **T. Sahoo** and P. K. Bhaskaran	Wave–current-surge interaction in a changing climate over a shallow continental shelf region	Regional Studies in Marine Science, Elsevier Inc	46, 019104 (2021)	I.F: 2.16 C.I: 10
30.	S Boral, S Nath, **T Sahoo** and M H Meylan	The role of viscoelastic foundation on flexural gravity wave blocking in shallow water	AIP Advances, AIP Publishing	11(6):1-17 (2021)	I.F:1.65 C.I: 08
31.	S Boral, **T Sahoo** and Y Stepanyants	Modulation instability of surface waves in the model with the uniform wind profile	Symmetry, MDPI	13(4):651 (2021)	I.F: 2.7 C.I: 4
32.	S Barman, S Das, **T Sahoo**, M H. Meylan	Scattering of flexural-gravity waves by a crack in a floating ice sheet due to mode conversion during blocking	J of Fluid Mechanics, Cambridge Univ Press	Vol. 916, DOI:10.1017/jfm.2021.200 (2021)	I.F.: 4.245 C.I: 20

33.	R Kaligatla, M Sharma, **T Sahoo**	Wave interaction with a pair of submerged floating tunnels in the presence of an array of submerged porous breakwaters	J of Offshore Mechanics and Arctic Engineering, ASME	143(2):021402 (2021)	I.F.: 1.76 C.I: 05
34.	MBM Khan, H Behera, **T Sahoo**, S Neelamani	Boundary element method for wave trapping by a multi-layered trapezoidal breakwater near a sloping rigid wall	Meccanica, Springer Verlag	56:317-334 (2021)	I.F.:2.538 C.I: 7
35.	KG Vijay, CS Nishad, S Neelamani, **T Sahoo**	Wave interaction with multiple wavy porous barriers using Dual Boundary Element Method	Engineering Analysis with Boundary Elements, Elsevier Inc	122, 176-189 (2021)	I.F.:3.25 C.I: 12
36.	AK Mohapatra, KG Vijay & **T. Sahoo**	Bragg scattering of surface gravity waves by a submerged wavy porous plate	Ocean Engineering, Elsevier Inc	219:108273 (2021)	I.F.:5 C.I: 7
37.	P. Mohapatra, KG Vijay, A. Bhattacharyya & **T. Sahoo**	Performance of a shore fixed OWC device for different bottom slopes and front wall drafts:A study based on CFD and BIEM	J Offshore Mech. and Arctic Engg (ASME)	143, 032002-(1-19) (2021)	I.F.: 1.76 C.I: 81
38. 11	KG Vijay, CS Nishad, S Neelamani, **T. Sahoo**	Gravity wave interaction with multiple submerged artificial reefs	Proc.Institution of Mech. Engineers UK, Part M:J. Eng. for the Maritime Environment, Sage Publication	235(2), 607-622 (2021)	I.F.:1.7 C.I: 3
39.	R Gayathri, P Kar, H Behera and **T. Sahoo**	Oblique wave scattering by a floating bridge in the presence of a vertical permeable flexible barrier.able flexible barrier.	J Offshore Mech. and Arctic Engg (ASME)	143(2), Apr. 2021, 021701	I.F.: 1.6 C.I.: 12

40.	P. Mohapatra, A. Bhattacharyya & **T. Sahoo**	Performance of a floating oscillating water column wave energy converter over a sloping bed	Ships and Offshore Structures (Taylor's and Francis Co.)	16 (6), 659-669 (2021)	I.F.:1.934 C.I.: 8
41.	S. Koley and **T. Sahoo**	Integral equation technique for water wave interaction by an array of vertical flexible porous wave barriers	ZAMM Springer Verlag	DOI: 10.1002/zamm.201900274, (2020)	I.F.:1.759 C.I.: 08
42.	P Kar, **T. Sahoo**, MH Meylan	Bragg scattering of long waves by an array of floating flexible plates in the presence of multiple submerged trenches	Physics of Fluids (AIP Publishing)	32, 096603 (2020)	I.F: 4.64 C.I.: 28
43.	K.G. Vijay, S.Y. He, Y. Zhao, Y. Liu and **T. Sahoo**	Gravity wave interaction with a submerged wavy porous plate	J Ships and Offshore Structures (Taylor's and Francis Co.)	15 (sup1), S123-S13 (2020)	I.F.:1.934 C.I: 13
44.	KG Vijay, CS Nishad, S Neelamani, **T. Sahoo**	Gravity wave interaction with a wave-attenuating system	Appl. Ocean Res (Elsevier Inc.)	101, Aug. 2020, 102206	I.F.: 3.761 C.I.: 16
45.	S. Das, **T. Sahoo** and M. H. Meylan	An investigation of the properties of flexural-gravity wave propagation in a coupled submerged and floating plate system	European J Mech.-B/Fluids (Elsevier Inc.)	82, 123- 134 (2020)	I.F.:2.598 C.I.: 7
46.	P Mohapatra and **T. Sahoo**	Hydrodynamic performance analysis of a shore fixed oscillating water column wave energy converter in the presence of bottom variations	Journal of Engineering for the Maritime Environment (Sage Publication)	234(1), 37-47 (2020)	I.F.:1.7 C.I.: 15

47.	S. Tabssum, RB Kaligatla, **T. Sahoo**	Surface gravity wave interaction with a partial porous breakwater in the presence of bottom undulation	J Eng Mechanics (ASCE)	146(9) 04020088 (2020)	I.F.: 3.125 C.I.: 13
48.	P Kar, S Koley, **T. Sahoo**	Bragg scattering of long waves by an array of trenches	Ocean Engineering Elsevier Inc.	198, 107004 (2020)	I.F.:5 C.I: 24
49.	M Sharma, R Kaligatla, **T. Sahoo**	Wave interaction with a submerged floating tunnel in the presence of a bottom mounted submerged porous breakwater	Applied Ocean Research Elsevier Inc.	96, 102069 (2020)	I.F.: 3.761 C.I: 30
50.	S Tabssum, R Kaligatla, **T. Sahoo**	Gravity wave interaction with a porous breakwater in a two-layer ocean of varying depth	Ocean Engineering Elsevier Inc.	196, 106816 (2020)	I.F.:5 C.I: 13
51.	KG Vijay, **T. Sahoo**, R. Datta	Wave-induced responses of a floating structure near a wall in the presence of permeable plates	Coastal Engineering Journal (Taylor and Francis)	62 (1), 35-52 (2020)	I.F.: 2.4 C.I: 12
52.	KG Vijay, S Neelamani, **T. Sahoo**	Wave interaction with multiple slotted barriers inside harbor: physical and numerical modelling	Ocean Engineering Elsevier Inc.	193(1), 106623 (2019)	I.F.:5 C.I: 37
53.	S Singla, H Behera, SC Martha, **T. Sahoo**	Scattering of obliquely incident water waves by a surface-piercing porous box	Ocean Engineering Elsevier Inc.	193(1), 106577 (2019)	I.F.: 5 C.I.: 10

54.	S A Selvan, H Behera and **T. Sahoo**	Reduction of hydroelastic response of a flexible floating structure by an annular flexible permeable membrane	J Eng Mathematics (Springer Verlag)	118:73–99 (2019)	I.F.: 1.3 C.I: 13
55.	S Singla, **T. Sahoo**, S. C Martha and H Behera	Effect of a floating permeable plate on the hydroelastic response of a very large floating structure, 10.1007/s10665-019-10002-0	J. Eng Mathematics (Springer Verlag)	116:49–72 (2019)	I.F.: 1.3 C.I: 19
56.	P. Kar, H Behera and **T. Sahoo**	Effect of Bragg scattering due to bottom undulation on a floating dock	Wave Motion Elsevier Inc.	90, 21-138 (2019)	I.F.: 2.174 C.I: 28
57.	Vijay, K G and **T. Sahoo**	Scattering of surface gravity waves by a pair of floating porous boxes	Journal of Offshore Mechanics and Arctic Engineering (ASME)	141, 051803-1-11 (2019)	I.F.: 1.76 C.I: 26
58.	Manisha, RB Kaligatla and **T. Sahoo**	Effect of bottom undulation for mitigating wave-induced forces on a floating bridge	Wave Motion	89, 166-184, 2019	I.F: 2.174 C.I: 29
59.	D. Suresh Kumar, D. Achani, Md. R. Sunny and **T. Sahoo**	Influence of Wave-Induced Uplift Forces on Upheaval Buckling of Pipelines Buried In Sandy Seabeds	J Offshore Mech and Arctic Eng (ASME)	041701-1-10 (2019)	I.F.: 1.76 C.I: 5
60.	H. Behera, **T. Sahoo** and C. O. Ng	Effect of a submerged porous plate on the hydroelastic response of a very large floating structure	J. of Marine Science & Applications, Springer Verlag	17, 564–577 (Dec, 2018)	I.F.:1.8 C.I.:13

61.	S Koley and **T. Sahoo**	An integro-differential equation approach to study the scattering of water waves by a floating flexible porous plate	J Geophysical and Astrophysical Fluid Dynamics (Taylor and Francis)	112(5), 345-356 (Oct, 2018)	I.F.:1.3 C.I.: 10
62.	S Das, P. Kar, **T. Sahoo** and MH Meylan	Flexural-gravity wave motion in the presence of shear current: wave blocking and negative energy waves	Physics of Fluids (AIP Publishing Co.)	30(10), 106606 (Oct, 2018)	I.F.: 4.64 C.I: 35
63.	S. Singla, S. C Martha and **T. Sahoo**	Mitigation of structural responses of a very large floating structure in the presence of vertical porous barrier	Ocean Engineering (Elsevier Inc)	65, 505-527 (Oct, 2018)	I.F.:5 C.I: 38
64.	P. Kar, S. Koley and **T. Sahoo**	Scattering of surface gravity waves over a pair of trenches	Applied Mathematical Modelling (Elsevier Inc)	62, 302-320 (Oct, 2018)	I.F.:5.336 C.I: 36
65.	SC Mohapatra, **T. Sahoo**, CG Soares	Surface gravity wave interaction with a submerged horizontal flexible porous plate	Applied Ocean Research (Elsevier Inc)	78, 61-74 (Sep, 2018)	I.F.: 3.761 C.I: 32
66.	S Das, **T. Sahoo** and MH Meylan	Flexural-gravity wave dynamics in two-layer fluid: blocking and dead water analogue	Journal of Fluid Mechanics (Cambridge Univ. Press)	854 121-125 (Aug, 2018)	I.F.:4.245 C.I: 44
67.	H. Behera, C. O. Ng and **T. Sahoo**	Oblique wave scattering by a floating elastic plate over a porous bed in single- and two-layer fluid systems	Ocean Engineering (Elsevier Inc)	159, 280-294 (July, 2018)	I.F.:5 C.I: 29

68.	S C. Mohapatra, **T. Sahoo** and Carlos Guedes Soares:	Interaction between surface gravity wave and submerged horizontal flexible structures	Journal of Hydrodynamics (Springer Verlag)	30(3), 481-498 (June 2018)	I.F:2.983 C.I: 16
69.	H. Behera, S. Das and **T. Sahoo**	Wave Propagation through mangrove forests in the presence of a viscoelastic bed	Wave Motion (Elsevier Inc)	78, 162-175 (April, 2018)	I.F: 2.174 C.I: 8
70.	RB Kaligatla, S Tabussam and **T. Sahoo**	Effect of bottom topography on wave scattering by multiple porous barriers	Meccanica (Springer Verlag)	53 (4), 887-903, (March, 2018)	I.F.:2.538 C.I: 24
71.	S Koley, R Mondal and **T. Sahoo**	Fredholm integral equation technique for hydroelastic analysis of a floating flexible porous plate	European Journal of Mechanics / B Fluids (Elsevier Inc)	67, 291-305 (Jan, 2018)	I.F.:2.598 C.I: 32
72.	S Das, **T. Sahoo** and MH Meylan	Dynamics of flexural gravity waves: from sea ice to Hawking radiation and analogue gravity	Proc. Roy Soc London Series A DOI: 10.1098/rspa.2017.0223	*474*(2209), 20170223 (Jan 2018)	I.F.:3.213 C.I: 59
73.	S Koley and **T. Sahoo**	Oblique wave trapping by vertical permeable membrane barriers located near a wall	J. of Marine Science & Applications, Springer Verlag	Vol. 16(4), 590-601 (2017)	I.F.:1.8 C.I.: 19
74.	RB Kaligatla, Manisha and **T. Sahoo**	Wave trapping by dual porous barriers near a wall in the presence of bottom undulation	J. of Marine Science & Applications, Springer Verlag	16(3), 286-297 (2017)	I.F:1.8 C.I: 19

75.	S Mandal, **T. Sahoo** and A Chakrabarti	Characteristics of eigen-systems for flexural gravity wave problems	Geophysical & Astrophysical Fluid Dynamics (Taylor and Francis Co.)	111(4) 249–281 (2017)	I.F.:1.3 C.I: 12
76.	S Koley and **T. Sahoo**	Wave interaction with a submerged semicircular porous breakwater placed on a porous seabed	Eng Anal with Boundary Elements, (Elsevier Inc)	80, 18-37 (2017)	I.F.: 3.25 C.I: 63
77.	S Koley and **T. Sahoo**	Scattering of oblique waves by permeable vertical flexible membrane wave barriers	Applied Ocean Research (Elsevier Inc)	62, 156-168, 2017	I.F.: 3.761 C.I: 31
78.	S Koley and **T. Sahoo**	Oblique wave scattering by horizontal floating flexible porous membrane	Meccanica, (Springer Verlag)	52(1), 125–138, (2017)	I.F.:2.538 C.I: 32
79.	S Das & **T. Sahoo**	Hydroelastic analysis of very large floating structure over viscoelastic bed	Meccanica, (Springer Verlag)	52(8), 1871–1887, (2017)	I.F.:2.538 C.I: 10
80.	H Behera, **T. Sahoo** & CO, NG	Wave scattering by a partial flexible porous barrier in the presence of a step-type bottom topography	Coastal Engg Journal, (World Scientific)	58(3), 1650008-(1-26), *2016*	I.F.:2.4 C.I.: 21
81.	S Mandal and **T. Sahoo**	Gravity wave interaction with a flexible circular cage system	Appl Ocean Res (Elsevier Inc)	*58, pp. 37-48 (2016)*	I.F.: 3.761 C.I: 17

82.	S. Das, H. Behera and **T. Sahoo**	Flexural gravity wave motion over poroelastic bed	Wave Motion, (Elsevier Inc)	63, 135-148 (2016)	I.F.: 2.174 C.I:13
83.	S Mandal, H Behera and **T. Sahoo**	Oblique wave interaction with porous, flexible barriers in a two- layer fluid	J of Eng Mathematics, (Springer Verlag)	100(1), 1-31 (2016)	I.F.: 1.3 C.I: 25
84.	S Mandal and **T. Sahoo**	Axisymmetric gravity wave diffraction by flexible porous cylinder system in two-layer fluid	Ocean Engg (Elsevier Inc)	106, 87-101 (2015)	I.F.:5 C.I: 8
85.	S. Koley A. Sarkar and **T. Sahoo**	Interaction of gravity waves with bottom-standing submerged structures having perforated outer-layer placed on a sloping bed	Applied Ocean Research (Elsevier Inc)	52, 245-260 (2015)	I.F.: 3.761 C.I.: 55
86.	S. Koley, H. Behera and **T. Sahoo**	Oblique wave trapping by porous structures near a wall	J. Engineering Mechanics, (ASCE)	141(3), 04014122 (2015)	I.F.: 3.125 C.I.: 75
87.	S. K. Mohanty, J. Bhattacharjee and **T. Sahoo**	Time-dependent capillary gravity waves in the presence of current	Acta Mechanica (Springer Verlag)	226, 311-330 (2015)	I.F.:2.7 C.I:04
88.	S. Koley, RB Kaligatla and **T. Sahoo**	Oblique wave scattering by a vertical flexible porous plate	Studies in Appl. Mathematics (Wiley Online)	135(1), 1-34 (2015)	I.F.:2.645 C.I.: 60

89.	H Behera and **T. Sahoo**	Hydroelastic analysis of gravity wave interaction with submerged horizontal flexible porous plate	J Fluids and Structures (Elsevier Inc)	54, 643-660 (2015)	I.F.: 3.482 C.I.:87
90.	R Mondal, J Bhattacharjee and **T. Sahoo**	Forced flexural gravity wave motion in two-layer fluid	J Offshore Mech and Arctic Engng (ASME)	137(3), 4029896 (2015)	I.F.: 1.76
91.	R. B. Kaligatla, S.Koley and **T.Sahoo**	Trapping of surface gravity waves by a vertical flexible porous plate near a wall	ZAMP (Springer Verlag)	66, 2677-2702 (2015)	I.F.:2.0 C.I:37
92.	H. Behera, S. Koley and **T. Sahoo**	Wave transmission by partial porous structures in two-layer fluid	Engg Anal with Boundary Elements (Elsevier Inc)	58, 58-78 (2015)	I.F.:3.25 C.I.: 53
93.	H Behera, R B Kaligatla and **T. Sahoo**	Wave trapping by porous barrier in the presence of step type bottom	Wave Motion (Elsevier Inc)	57, 219-230 (2015)	I.F.: 2.174 C.I: 37
94.	R. Mondal, S.Mandal and **T.Sahoo**	Surface gravity wave interaction with circular flexible structures	Ocean Engineering (Elsevier Inc)	88, 446–462 (2014)	I.F.: 5 C.I: 17
95.	S C Mohapatra and **T. Sahoo**	Wave interaction with a floating and submerged elastic plate system	J. Eng Mathematics (Springer Verlag)	87(1), pp. 47- (2014)	I.F.: 1.3 C.I: 27

96.	S C Mohapatra and **T. Sahoo**	Oblique wave diffraction by a flexible floating structure in the presence of a submerged flexible structure	Geophysical and Astrophysicl Fluid Dynamics (Taylor and Francis Co.)	108(6), 615 (2014)	I.F.:1.3 C.I: 27
97.	S. K. Mohanty, R. Mondal and **T. Sahoo**	Time dependent flexural gravity waves in the presence of current	J Fluids and Structures (Elsevier Inc)	45, 28-49 (2014)	I.F.: 3.482 C.I: 32
98.	R Mondal and **T. Sahoo**	Wave Structure Interaction Problems in Three-layer Fluid	ZAMP (Springer Verlag)	65(2), 349-375 (2014)	I.F.:2.0 C.I.:13
99.	S C Mohapatra and **T. Sahoo**	Forced capillary-gravity wave motion of two-layer fluid in three-dimensions	Meccanica (Springer Verlag)	49, 939–960 (2014)	I.F.:2.538 C.I: 9
100.	H Behera and **T. Sahoo**	Gravity wave interaction with porous structures in two-layer fluid	J Engineering Mathematics (Springer Verlag)	87(1), pp 73-97 (2014)	I.F.: 1.3 C.I.: 60
101.	S. C. Mohapatra, R. Ghosal and **T. Sahoo**	Effect of compression on wave diffraction by a floating elastic plate	J. Fluids and Structures (Elsevier Inc)	36, 124-135 (2013)	I.F.: 3.482 C.I.:28
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103.	S Mandal N. Datta and **T. Sahoo**,	Hydroelastic analysis of surface wave interaction with concentric porous and flexible cylinder systems	J Fluids and Structures (Elsevier Inc)	42 , 437-455 (2013)	I.F.: 3.482 C.I: 43
104.	R. Mondal, S. K. Mohanty and **T. Sahoo**	Expansion Formulae for Wave Structure Interaction Problems in Three Dimensions	IMA J Appl Math, (Oxford Univ Press)	78,181-205 (2013)	I.F.: 1.146 C.I.: 34
105.	R Mondal and **T. Sahoo**	Wave Structure Interaction Problems for Two-Layer Fluids in Three Dimensions,	Wave Motion (Elsevier Inc)	49, 501-524 (2012)	I.F.: 2.174 C.I: 31
106.	S. C. Mohapatra, D. Karmakar and **T. Sahoo**	On capillary gravity wave motion in two-layer fluids	J. Eng .Mathematics (Springer Verlag)	71, 253-277(2011)	I.F.: 1.3 C.I:28
107.	S. C. Mohapatra and **T. Sahoo**	Surface gravity wave interaction with elastic bottom	Appl Ocean Research (Elsevier Inc)	33(1), 31-40 (2011)	I.F.:3.761 C.I.:35
108.	D. Karmakar, J. Bhattacharjee & **T. Sahoo**	Oblique flexural gravity wave scattering due to changes in bottom topography	J. Engg. Mathematics (Springer Verlag)	66(4) pp.325-41 (2010)	I.F.: 1.3 C.I: 42
109.	J. Bhattacharjee & **T. Sahoo**	Interaction of flexural gravity waves with shear current in shallow water	Ocean Engineering (Elsevier Inc)	36, pp. 831-841 (2009)	I.F.: 5 C.I.: 4

110.	D. Karmakar, J. Bhattacharjee & **T. Sahoo**	Wave interaction with multiple articulated floating elastic plates	J. Fluids & Structures (Elsevier Inc)	25(6), 2009, pp. 1065-1078	I.F.: 3.482 **C.I.: 47**
111.	J. Bhattacharjee & **T. Sahoo**	Flexural gravity wave generation by initial disturbances in the presence of uniform current	J. Mar. Sc. & Tech. (Springer Verlag)	13(2), 138-146(2008)	I.F.:2.6 C.I.:11
112.	D. Karmakar & **T. Sahoo**	Gravity wave interaction with floating membrane due to abrupt change in water depth	Ocean Engineering (Elsevier Inc.)	35(7) pp.598-615 (2008)	I.F.: 5 C.I:34
113.	J. Bhattacharjee & **T. Sahoo**	Flexural gravity wave problems in two-layer fluids	Wave Motion (Elsevier Inc.)	45 pp. 133-153 (2008)	I.F.: 2.174 C.I.:46
114.	J. Bhattacharjee, D. Karmakar & **T. Sahoo**	Transformation of flexural gravity waves by heterogeneous boundaries	J. Eng. Math. (Springer Verlag)	62, 173-188 (2008)	I.F.: 1.3 C.I:19
115.	D. Karmakar, J. Bhattacharjee & **T. Sahoo**	Expansion formulae for wave-structure interaction problems with applications in hydroelasticity	Int'l J. Engg. Sc. (Elsevier Inc.)	45(10) 807- 828 (2007)	I.F.:6.6 C.I:28
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117.	J. Bhattacharjee & **T. Sahoo**	Interaction of current and flexural gravity waves	Ocean Engg, (Elsevier. Inc.)	34, 1505-1515 (2007)	I.F.: 5 C.I:18
118.	P. Suresh Kumar, S.R. Manam & **T. Sahoo**	Wave scattering by flexible porous vertical membrane barrier in a two-layer fluid	J. Fluids and Structures (Elsevier Inc.)	23, 633-647 (2007)	I.F.: 3.482 C.I.:50
119.	P. Suresh Kumar & **T. Sahoo**	Wave interaction with a flexible porous breakwater in a two-layer fluid	J. Eng. Mechanics (ASCE)	132(9), 1007-1014 (2006)	I.F.: 3.125 C.I:19
120.	S. R. Manam, J. Bhattacharjee & **T. Sahoo**	Expansion formulae in wave structure interaction problems	Proc. Roy. Soc. London, Series A (Royal Society London)	462(2065), 263-287 (2006)	I.F.:3.213 C.I.:102
121.	D. Karmakar & **T. Sahoo**	Scattering of waves by articulated floating elastic plates in water of infinite depth	Marine Structure (Elsevier Inc.)	18(5-6), 451-471 2005	I.F.:4.5 C.I.:36
122.	S. R. Manam & **T. Sahoo**	Waves past porous structures in two-layer fluids	J. Eng. Mathematics (Springer Verlag)	Vol 52, No. 4, pp. 355-377 (2005)	I.F.: 1.3 C.I.:50
123.	T. L. Yip, **T. Sahoo** and A. T. Chwang	Trapping of surface waves by porous and flexible structures	Wave motion (Elsevier Inc)	35(1), 41-54 (2002)	I.F.: 2.174 C.I.:66x

124.	**T. Sahoo**, T. L. Yip & Chwang, AT	Scattering of surface waves by a semi-infinite floating elastic plate	Physics of Fluids (AIP Publishing, USA)	Vol. 13, No. 11, pp. 3215-3222 (2001)	I.F.: 4.64 C.I.:157
125.	T. L. Yip, **T. Sahoo** and A. T. Chwang	Wave oscillation in a circular harbour with porous wall	J. Appl. Mech (ASME)	68(4), 603-607 (2001)	I.F.:2.794 C.I: 9
126.	**T. Sahoo**, M. M. Lee & A. T. Chwang	Trapping and generation of waves by vertical porous structure	J. Eng. Mech. (ASCE)	Vol. 126, No. 10, pp. 1074-1082 (2000)	I.F.: 3.125 C.I.:154
127.	**T. Sahoo**, A. T. Chan & A. T. Chwang	Scattering of oblique surface waves by permeable barriers	J. Waterway, Port, Coast & Oc. Eng (ASCE)	126(4), 196-205 (2000)	I.F.:2.059 C.I.:57
128.	**T. Sahoo**	On the generation of water waves by cylindrical porous wavemaker	Acta Mechanica (Springer Verlag)	126, 231-239 (1998)	I.F.:2.645 C.I:11
129.	**T. Sahoo**	On the scattering of water waves by porous barriers	ZAMM (Academic Verlag)	78(5), 364-370 (1998)	I.F.:1.759 C.I: 09
130.	**T. Sahoo** & A Chakrabarti	The effect of surface tension in porous wavemaker problems	J. Austral. Math. Soc. Ser. B.	39, 539-556 (1998)	I.F.:0.717 C.I.:12

131.	A. Chakrabarti, & **T. Sahoo**	Reflection of water waves in the presence of surface tension by a nearly vertical porous wall	J. Austral. Math. Soc. Ser. B	39, 308-317 (1998)	I.F.:0.717 C.I.:01
132.	A. Chakrabarti, S. Banerjea, B. N. Mandal & **T. Sahoo**	A unified approach to problems of scattering of surface water waves by vertical barriers	J. Austral. Math. Soc. Ser. B.	39, 93-103 (1997)	I.F.:0.717 C.I.:14
133.	A. Chakrabarti, & **T. Sahoo**	On the incoming water waves against a vertical cliff	Proc. Indian Acad. Sci. (Math. Sci.)	107 (1), 89-93(1997)	I.F:0.626 C.I.:10
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135.	A. Chakrabarti, & **T. Sahoo**	Reflection of water waves by a nearly vertical porous wall	J. Austral. Math. Soc. Ser. B.	37, 417-429 (1996)	I.F.:0.717 C.I.:11
136.	A. Chakrabarti, & **T. Sahoo**	Solution of singular integral equations with logarithmic and Cauchy kernels	Proc. Indian Acad. Sci. (Math. Sci.)	106 (3), 261-270 (1996)	I.F:0.626 C.I.:06
137.	A. Chakrabarti & **T. Sahoo**	A note on a class of singular integro-differential equations	Proc. Indian Acad. Sci. (Math. Sci.).	106 (2), 177-182 (1996)	I.F:0.626

138.	A. Chakrabarti, S. Banerjea, B. N. Mandal & **T. Sahoo**	Solution of a class of mixed boundary value problems for Laplace equation arising in water wave scattering	J. Indian Inst. Sci., Bangalore	75, 577 -585 (1995)	I.F.:2.456 C.I.:08
139.	**T. Sahoo** & A Chakrabarti	On the solution of the partially immersed vertical wavemaker problem in surface water waves	J. Indian Inst. Sci., Bangalore	75, 587-595 (1995)	I.F.:2.456
140.	**T. Sahoo** & A Chakrabarti	The effect of surface tension and rotation on obliquely incident surface water waves against a vertical cliff	Bull Cal. Math Soc, Kolkatta	87(3). 253-264 (1995)	-

28. List of papers published in Conferences / Symposia / Seminars etc.

Sl. No	Author's name in order as in the paper	Title of Paper	Name of Conference/ Symposia/Seminar and location	Vol., page & year of Publication
107	Boral S. , Sahoo T.	Scattering of long gravity waves by a moored floating flexible plate in the framework of wave blocking	14th International Conference on Hydrodynamics (ICHD-2022), WUXI, CHINA	2022
106	Negi P., Boral S. , Sahoo T.	Scattering of Flexural-Gravity Waves Due to a Finite Gap in the Context of Blocking Dynamics	14th International Conference on Hydrodynamics (ICHD-2022), WUXI, CHINA	2022
105	Barman S., Sahoo T.	Scattering of flexural-gravity long waves across a gap between two semi-infinite floating elastic plates within the framework of blocking dynamics	14th International Conference on Hydrodynamics (ICHD-2022), WUXI, CHINA	2022
104	Bisht N., Boral S. , Sahoo T.	Flexural gravity wave triad resonances in a two-layer fluid	14th International Conference on Hydrodynamics (ICHD-2022), WUXI, CHINA	2022
103	Chanda A., Sarkar A. , Sahoo T.	Study of water wave interaction with a submerged bottom-mounted compound porous cylinder in the presence of a porous sea-bed	67th congress of the Indian Society of Theoretical and Applied Mechanics (ISTAM-2022), IIT andia	2022

102	Bisht N., Boral S. , Sahoo T.	Flexural gravity wave triad resonances in a two-layer fluid	67th congress of the Indian Society of Theoretical and Applied Mechanics (ISTAM-2022), IIT Mandi	2022
101	Negi P., Boral S. , Sahoo T.	Scattering of oblique flexural gravity waves by an articulated floating elastic plate within the reference frame of wave blocking	67th congress of the Indian Society of Theoretical and Applied Mechanics (ISTAM-2022), IIT Mandi	2022
100	S. Boral and T. Sahoo	Flexural Gravity Wave Blocking due to a Floating Submerged Plate Resting on a Viscoleastic Foundation	9th International Conference on Hydroelasticity in Marine Technology (HYEL-2022), ROME, ITALY	MS. No. 6 CD-ROM, (2022)
99	Chanda A., Sahoo T.	Flexural gravity wave scattering by a pair of vertical porous barriers	AMSI AustMS Workshop on Mathematics of Sea Ice and Ice Sheets, Adelaide University, Australia	2022
98	Boral S., Sahoo T.	Gravity wave scattering by an array of floating flexible plates having moored edges and resting on a Winkler foundation	AMSI AustMS Workshop on Mathematics of Sea Ice and Ice Sheets Adelaide University, Australia	2022
97	Barman S. C., Sahoo T.	Scattering of flexural gravity waves due to a crack in a floating ice sheet in a three-layer fluid in the context of blocking dynamics	AMSI AustMS Workshop on Mathematics of Sea Ice and Ice Sheets Adelaide University, Australia	2022
96	Negi P., Sahoo T.	Scattering of oblique flexural gravity waves by an articulated floating elastic plate within the framework of wave blocking	AMSI AustMS Workshop on Mathematics of Sea Ice and Ice Sheets Adelaide University, Australia	2022
95	Bisht N., Sahoo T.	Triad resonances of flexural gravity wave on uniform flow in the context of blocking dynamics	AMSI AustMS Workshop on Mathematics of Sea Ice and Ice Sheets Adelaide University, Australia	2022
94	P. Negi, S. Boral and T. Sahoo	Scattering of Long Flexural Waves by An Articulated Floating Elastic Plate in The Context of Wave Blocking	9th International Conference on Hydroelasticity in Marine Technology (HYEL-2022), ROME, ITALY	MS. No. 21 CD-ROM, (2022)
93	S. Barman and T. Sahoo	Scattering of Flexural-Gravity Waves Due to A Finite Gap in The Context of Blocking Dynamics	9th International Conference on Hydroelasticity in Marine Technology (HYEL-2022), ROME, ITALY	Ms. No. 25 CD-ROM, (2022)
92	Sahoo T	Integral Transform techniques and method of steepest descent in hydroelasticity: An overview	IWNATEP – 2022 SRM Institute of Science and Technology, India	January 19 - 21, 2022

91	Boral S., Sahoo T. , Meylan M	Flexural gravity wave amplitudes in the vicinity of blocking point under shallow water approximation	IWWWFB-2022 Giardini Naxos, ITALY	10-13, April 2022
90	Barman S. C., Boral S. , Sahoo T.	Blocking dynamics of flexural gravity waves in a three-layer fluid	International Workshop on the Mathematics of Sea Ice and Ice Sheets 2021 Southern Queensland University, Australia	2021
89	Boral S., Sahoo T. , Stepanyants Y.	Modulation instability of hydro-elastic waves blown by the wind with a uniform vertical profile	International Workshop on the Mathematics of Sea Ice and Ice Sheets 2021 Southern Queensland University, Australia	2021
88	Negi P., Boral S. , Sahoo T.	Scattering of oblique waves by a semi-infinite floating ice-sheet	International Workshop on the Mathematics of Sea Ice and Ice Sheets 2021 Southern Queensland University, Australia	2021
87	Barman S. C., Das S. , Sahoo T. , Meylan M. H.	Sea ice and interfacial deflection within the frequency band of blocking in a stratified ocean	International Workshop on the Mathematics of Sea Ice and Ice Sheets 2021 Southern Queensland University, Australia	2021
86	Panduranga K., Koley S. , Sahoo T.	Water wave scattering by a floating viscoelastic plate over an undulated seabed	International Workshop on the Mathematics of Sea Ice and Ice Sheets 2021 Southern Queensland University, Australia	2021
85	S Barman, S Das and T Sahoo	Energy identity for flexural-gravity wave scattering due to a crack in a floating ice sheet in two-layer fluid in the context of blocking dynamics	IWWWFB-2021 Seoul National University, **South Korea (virtual)**	25-28,April 2021
84	M. H. Meylan, T Sahoo and S Das	Flexural gravity wave scattering for compressed ice	IWWWFB-2020 Seoul National University, **South Korea (virtual)**	24-28, August 2020
83	P. Mohapatra, A. Bhattacharyya, T. Sahoo	Influence of sea bed slope on the performance of a shore-fixed oscillating water column wave energy converter	Bulletin of the American Physical Society, 72nd Annual Meeting of the APS Division of Fluid Dynamics, November 23-26, 2019; Seattle, Washington,	Volume 64, Number 13, Abstract ID: BAPS.2019.DFD.L14.1
82	K.G. Vijay, S. He, Y. Zhao, Y. Liu and T. Sahoo	Gravity wave interaction with a submerged wavy porous plate	Int'l Conference on Ship and Offshore Structures, (ICSOS-2019) Melbourne, Florida, **USA**	4-8, November, 2019
81	Smriti Nath, Susam Boral, Trilochan Sahoo	Role of damped elastic foundation on the blocking dynamics of flexural gravity wave in shallow water	Mathematics of Sea Ice and Ice Sheets The University of Newcastle, Australia	2020

80	Sofia Singla, S.C. Martha and T. Sahoo	Scattering of water waves by flexible porous breakwater in the presence of an elastic plate	Mathematics of Sea Ice and Ice Sheets The University of Newcastle, Australia	2020
79	Prakash Kar, Trilochan Sahoo	Scattering of long waves by a semi-infinite ice sheet in the presence of bottom undulation	Mathematics of Sea Ice and Ice Sheets The University of Newcastle, Australia	2020
78	Susam Boral, Trilochan Sahoo and Michael H Meylan	Characteristics of flexural gravity waves near blocking point in shallow water	Mathematics of Sea Ice and Ice Sheets The University of Newcastle, Australia	2020
77	Sunil Chandra Barman, T. Sahoo, S. Das, M. H. Meylan	Eigenfunction expansion for velocity potential for flexural gravity waves during wave blocking	Mathematics of Sea Ice and Ice Sheets The University of Newcastle, Australia	2020
76	Prakash Kar and T. Sahoo	Bragg scattering of long waves by multiple surface piercing flexible plates and submerged breakwaters	International conference on Differential Equation and Numerical Analysis (ADENA-2020) IIT Guwahati	12-14, October, 2020
75	S. Boral and T. Sahoo	Flexural gravity wave blocking in coupled plate system	International conference on Differential Equation and Numerical Analysis (ADENA-2020) IIT Guwahati	12-14, October, 2020
74	Sunil Chandra Barman, S. Das, T. Sahoo, M. H. Meylan	Expansion formula for flexural gravity waves during wave blocking	International conference on Differential Equation and Numerical Analysis ADENA-2020 IIT Guwahati	12-14, October, 2020
73	S. Singla, S C Martha and T Sahoo	Effect of flexible porous breakwater in mitigating hydroelastic responses of a very large floating structure	International conference on Differential Equation and Numerical Analysis (ADENA-2020) IIT Guwahati	12-14, October, 2020
72	V. Venkateswarlu, K.G. Vijay, C.S. Nishad and T. Sahoo	Wave Scattering by a Pair of Floating Pontoons Having a Submerged Mesh Cage	International conference on Differential Equation and Numerical Analysis (ADENA-2020) IIT Guwahati	12-14, October, 2020
71	S. Singla, S C Martha and **T Sahoo**	Role of flexible porous breakwaters in reducing structural responses of a very large floating structure	9th International Congress on Industrial and Applied Mathematics (**ICIAM 2019**), Valencia (Spain),	CD-ROM July 15th- 19th, 2019
70	P. Kar, R. Gayathri, H. Behera, **T. Sahoo**	Mitigation of wave-induced forces on a floating bridge by vertical flexible porous barriers.	9th International Congress on Industrial and Applied Mathematics (**ICIAM 2019**), Valencia (Spain),	CD-ROM July 15th- 19th, 2019

69	S. Das, **T. Sahoo** and M. H. Meylan	Effect of submerged plate on flexural-gravity wave blocking	34th International Workshop on Water Waves and Floating Bodies (**IWWWFB-2019)** held at the New Castle University, **Australia**	CD-ROM 7-10, April, 2019
68	D. Suresh Kumar, D. Achani, M. R. Sunny and **T. Sahoo**	Effect of seabed imperfection on the buckling of buried pipelines	38th International Conference on Ocean, Offshore & Arctic Engineering, **OMAE-2019** held at Glasgow, **UK**	CD-ROM held during June, 2019
67	P. Mohapatra, **T. Sahoo** and A. Bhattacharyya	CFD analysis on the hydrodynamic performance of an Oscillating Water Column Wave Energy device with variable bottom topography	71st Annual Meeting of the APS Division of Fluid Dynamics held at Atlanta, Georgia, **USA** (Bulletin of the American Physical Society)	Volume 63, Number 13, Abstract ID: BAPS.2018.DFD .D06.8
66	K G. Vijay and **T. Sahoo**	Retrofitting of floating bridges with perforated outer cover for mitigating wave-induced responses	37th International Conference on Ocean, Offshore & Arctic Engineering, OMAE-2018 held at Madrid **Spain**	CD-ROM 17-22, June, 2018
65	S. Das, **T. Sahoo** and M. H. Meylan	Flexural gravity wave blocking in a two-layer fluid	33rd International Workshop on Water Waves and Floating Bodies (**IWWWFB-2018)** held at Guidel-Plages, **FRANCE**	CD-ROM (4-7, April, 2018)
64	K G Vijay and T Sahoo	Wave diffraction by floating bridges	ICSOT-2017 a biennial International conference held at IIT Kharagpur, **INDIA**	CD-ROM (7-8, Dec, 2017)
63	A. K Mohapatra, D Achani, A Sarkar and T. Sahoo	Fatigue Assessment of Subsea Pipelines due to multi span interaction	ICSOT-2017 a biennial International conference held at IIT Kharagpur, **INDIA**	CD-ROM (7-8, Dec, 2017)
62	D Suresh Kumar, D Achani, Md. R Sunny and T. Sahoo	Evaluation of wave-induced uplift forces on buried pipelines in sandy seabeds	ICSOT-2017 a biennial International conference held at IIT Kharagpur, **INDIA**	CD-ROM (7-8, Dec, 2017)
61	P Kar, S Koley and T Sahoo	Transformation of gravity waves by Bragg breakwaters	ICSOT-2017 a biennial International conference held at IIT Kharagpur, **INDIA**	CD-ROM (7-8, Dec. 2017)
60	Sofia Singla, S C Martha and T Sahoo	Water wave interaction with very large floating structures (VLFS) in the presence of vertical barrier	ICSOT-2017 a biennial International conference held at IIT Kharagpur	CD-ROM (7-8, Dec. 2017)
59	H Behera, C.O Ng and **T. Sahoo**	Scattering of oblique waves by a floating elastic plate over a porous bed	37th IAHR World Congress, Kualalumpur, **Malaysia**	13th -18th Aug, 2017

58	S Das, **T. Sahoo** and M. H. Meylan	Flexural gravity waves in two-layer fluid: Blocking and dead water analogue	SIAM:EAST ASEAN Section Conference -2017 (EASEAN-2017) held at Seoul National University, **SEOUL**	22nd -25th June, 2017
57	S. Koley, S. Das and **T. Sahoo**	Wave scattering by semicircular porous breakwater placed on a porous seabed	31st International workshop on water waves and floating Bodies held at Plymouth, Michigan, **USA**	3rd – 6th April, 2016
56	S Mandal, **T Sahoo** and A Chakrabarti	A note on convergence of expansion formulae for wave- structure interaction problems	30th International Workshop on water waves and floating bodies held at Bristol **UK**	Paper No. iwwwfb30_ 35.pdf April-2015
55	S. Koley, R. Mondal and **T. Sahoo**	Scattering of water waves by a floating flexible porous plate	International Conference on Industrial and Applied Mathematics (ICIAM-2015) held at Beijing, **China**	**CD-ROM,** Aug. -2015
54	S. Mandal and **T. Sahoo**	Wave interaction with floating flexible circular cage system	11th Int'l Conference on Hydrodynamics (ICHD-2014) held at **Singapore**	**CD-ROM** Oct- 2014
53	H. Behera and **T. Sahoo**	Trapping of surface waves by a submerged trapezoidal breakwater near a wall	11th Int'l Conference on Hydrodynamics (ICHD-2014) held at **Singapore**	**CD-ROM.** Oct.- 2014
52	S. Mandal, H. Behera and **T. Sahoo**	Oblique wave scattering by permeable multiple membrane barriers in two- layer fluid",	International Conference on Theoretical, Computational and Experimental Mechanics (ICTACEM-2014) held at IIT Kharagpur, **India**	**CD-ROM,** Dec.- 2014
51	S. Koley and **T Sahoo**	Scattering of oblique waves by permeable membrane barrier	International Conference on Theoretical, Computational and Experimental Mechanics (ICTACEM-2014)), 2014, **India**	**CD-ROM,** Dec.-2014
50	S. Koley, H Behera and **T. Sahoo**	Oblique wave trapping by a submerged porous structure near a wall	INCHOE-2014 held at NIO GOA, **INDIA**	**CD-ROM** Feb, 2014
49	S Mandal and **T. Sahoo**	Gravity wave interaction with porous and flexible cylinder system	INCHOE-2014 held at NIO GOA, INDIA	**CD-ROM**, Feb-2014
48	S. Koley, H Behera and **T. Sahoo**	Trapping of oblique waves by porous and flexible barriers near a wall in two-layer fluid	INCHOE-2014 held at NIO GOA, **INDIA**	**CD-ROM** Feb-2014,

47	S. Mandal, H. Behera and **T. Sahoo**	Wave scattering by dual surface-piercing porous and flexible barriers	IWWWFB-2014 held in **Japan,** Paper No. iwwwfb29_37	CD-ROM 30th March - 2nd April, 2014
46	S. K. Mohanty and **T. Sahoo**	Transient flexural gravity wave motion in the presence of floating and submerged plate system	IWWWFB-2014 held in **Japan**, Paper No. iwwwfb29_38	CD-ROM, 30th March - 2nd April, 2014
45	S K Mohanty, R Mandal, **T Sahoo**	Time dependent flexural gravity wavemaker problem	IWWWFB-2013 held in **France**, Paper No. iwwwfb28_38	CD-ROM, April,2013
44	S C Mohapatra and **T Sahoo**	Expansion formula for velocity potential for wave interaction with floating and submerged structures	IWWWFB-2013 held in **France**, iwwwfb28_39	CD-ROM, April,2013
43	S. K. Mohanty, R. Mondal & **T. Sahoo**	A Fourier Type Expansion Formula for Problems in Hydroelasticity	ICM-2010 University of Hyderabad, **India**	CD-ROM, Aug., 2010
42	R. Mondal , S. K. Mohanty & **T. Sahoo**	An expansion formula for wave structure interaction problems in three Dimensions	ICM-2010 University of Hyderabad, **India**	CD-ROM 2010
41	J. Bhattacharjee & **T. Sahoo**	Effect of jet like current on flexural gravity waves	3rd Int'l Conference in Ocean Engg., IIT, Madras, **India**	CD-ROM 2009
40	D. Karmakar, J. Bhattacharjee & **T. Sahoo**	Flexural gravity wave scattering due to variations in bottom topography	Intl Conf. on Ocean Offshore and Arctic Engng, Honolulu, Hawaii, **USA**	OMAE-2009 1301-1310
39	J.Bhattacharjee, D. Karmakar & **T. Sahoo**	Scattering of gravity waves by floating elastic plate in shallow water	9th International Conference on Vibration Problems, IIT, Kharagpur, **INDIA**	CD-ROM 19th -22nd Jan- 2009
38	D. Karmakar, J. Bhattacharjee & **T. Sahoo**	Hydroelastic analysis of multiple articulated floating elastic plate	22nd Int'l Conf. on Theoretical and Applied Mechanics, The Univ. of Adelaide, **Australia**	CD-ROM, Paper ID 10186, ISBN 978- 09805142-1-6
37	D. Karmakar, & **T. Sahoo**	Scattering of flexural gravity waves by abrupt change in water depth	Proceedings in Applied Mathematics and Mechanics (PAMM), Zurich, **Switzerland**	2008, 7(1), 2050021--2050022

36	J.Bhattacharjee & **T. Sahoo**	Scattering of flexural gravity waves due to heterogeneity in floating ice sheet	4th Int'l Conf. on Theoretical, Applied, Computational and Experimental Mechanics, AE, IIT, Kharagpur, **India**	pp. 57-59, Dec. 2007
35	D. Karmakar & **T. Sahoo**	Wave scattering by multiple articulated floating elastic plates	4th National Conference on Port, Harbor and Ocean Engineeing CUSAT, Cochin, **India**	pp. 401-409 Dec. 2007
34	D. Karmakar & **T. Sahoo**	Wave interaction with semi- infinite floating membrane	ISOPE-2007 Lisbon, **Portugal**	pp. 2184-2191, 2007
33	J.Bhattacharjee, D. Karmakar & **T. Sahoo**	On transformation of flexural gravity waves	IWWWFB-2007, Zagrab, **Croatia**	5-8, 2007
32	J.Bhattacharjee D. Karmakar & **T. Sahoo**	Scattering of flexural gravity waves by an infinite step	Frontiers on Fluid Mechanics, Bangalore University, 26-28, Oct., 2006, Sapna Book House, Bangalore, **India**	487-496, 2006
31	J.Bhattacharjee & **T. Sahoo**	On flexural gravity waves in the presence of current	ICCMS-2006,IIT,Guwahati I. K. Int'l publishing House Pvt. Ltd., Mumbai, **India**	1475-1482, 2006
30	D. Karmakar & **T. Sahoo**	Green's function approach in water wave scattering problems	International Congress of Mathematician held at Madrid, **Spain**	Paper ID - 789, Aug-2006
29	D. Karmakar & **T. Sahoo**	The effect of articulation on floating elastic plate in water of finite depth	ICCMS-2006,IIT,Guwahati (8-10,Dec-2006) I. K. Int'l publishing House Pvt. Ltd., Mumbai, **India**	1240-1247, 2006
28	J.Bhattacharjee & **T. Sahoo**	Expansion formulae for wave structure interaction problems in two-layer fluids	ICAFMIE-2006, ISI, Kolkata, **India**	pp. 278-284 (2006), Res.-Publishing, India
27	D. Karmakar & **T. Sahoo**	Flexural gravity wavemaker problem-revisited	ICAFMIE-2006, ISI, Kolkata **India**	pp. 285-291 (2006), Res-Publishing, India
26	P. Suresh Kumar, ,J.Bhattacharjee & **T. Sahoo**	Wave interaction with floating and submerged rectangular dikes in a two-layer fluid	Lakes and Coastal Wetlands: Conservation, restoration and management edited by P. K. Mohanty, **India**	pp. 166-179 (2006), Capital Publish. Co.

25	J. Bhattacharjee & **T. Sahoo**	Scattering of ice-coupled waves by a crack in a compressed ice-sheet	Proc. of conf. of Int'l Assoc.of Hydraulic Res Asia-Pacific Divn(IIT, Madras) Allied Publisher, **INDIA**	849-855, 2006
24	J. Bhattacharjee & **T. Sahoo**	Effect of current on flexural gravity waves	15th Int'l Conf on Offshore Mechanics & Arctic Engng, Hamburg, **Germany**	CD-ROM June-2006
23	D. Karmakar and **T. Sahoo**	Expansion formula in wave structure interaction problems-revisited	21st Int'l Workshop on Water Waves & Floating Bodies, Leicestershire, **UK**	P. 81-84, April-2006
22	P. Suresh Kumar and **T. Sahoo**	Wave Trapping by Porous and Flexible Barriers in a Two-layer Fluid	Proc. of the 15th Conf. of the Int'l Society of Offshore and Polar Engineers, Seoul, **South Korea**	Vol. III, pp. 572-579 (June-2005)
21	P. Suresh Kumar & **T. Sahoo**	Wave past flexible porous breakwater in a two-layer fluid.	Proc. 3rd Indian National Conference on Harbor and Ocean Engineering, NIO Goa, **India**	pp. 457-467, Dec-2004
20	**T. Sahoo**	Interaction of surface waves with flexible structures- Progress and prospects	Proc. of Seminar 2002, Marine Hydrodynamics, Prospects and Progress in Indian Context, NSTL, Visakhapatnam, **India**	pp. 293-298. Feb-2002
19	**T. Sahoo** & N. Agarwala	Scattering of water waves with a floating membrane in the presence of current	Proc. Ship and Ocean Technology, IIT Kharagpur, **India**	CD-ROM (p1-5) 2002
18	**T. Sahoo** & N. Agarwala	On the deflection of a floating horizontal elastic plate in the presence of current	Proc. 47th Congress of Indian Society of Theoretical and Applied Mechanics, IIT Guwahati, **India**	pp. 176-183, 2002
17	**T. Sahoo** & N. Agarwala	Effect of current on the deflection of floating membrane.	Proc. of Conf. on Hydraulics, water resources and Engng, IIT, Bombay, **India**	pp. 264-269. Dec.-2002
16	T. L. Yip, **T. Sahoo** and A. T. Chwang	Wave-induced force and moments on a floating elastic plate	Proc. first Asia Pacific Conference on Offshore Systems, Selangor, **Malaysia**	pp. 153-158 (2001)
15	T. L. Yip, **T. Sahoo** and A. T. Chwang	Wave scattering by multiple floating membranes	Proc. 11th In'l Offshore and Polar Engg Conf. Stavangar, **Norway**	Vol. 3, pp. 379-384 (2001)

14	**T. Sahoo,** T. L. Yip and A. T. Chwang	Wave interaction with a semi-infinite horizontal membrane	Proc. of XXIX IAHR Congress, Theme –E Hydra. for Mar.Eng, Beijing, **China**	pp.109-117 (2001)
13	**T. Sahoo**	On the expansion theorems of velocity potentials in hydroelastic wave problems	Recent trends in Mathematical Sciences edited by JC Mishra & SB Sinha, Narosa Publising House, **India**	pp.209-216 2001
12	**T. Sahoo,** T. L. Yip and A. T. Chwang	On the interaction of surface waves with a semi-infinite elastic plate	Proc. 10th Int'l Offshore and Polar Engng Conf Seattle, **USA**	Vol. 3, pp. 584-589 (2000)
11	T. L. Yip, **T. Sahoo** and A. T. Chwang	Wave trapping by porous and flexible barriers	Proc. 10th Int'l Offshore and Polar Engng Conf Seattle, **USA**	Vol. 3, pp. 633-638 (2000)
10	T. L. Yip, **T. Sahoo** and A. T. Chwang	Resonance in a circular harbour with porous seawall	Proc. 4th Int'l Conf on Hydrodyn, Yokohama, **JAPAN**	pp. 503-508 (2000)
9	**T. Sahoo,** T. L. Yip and A. T. Chwang	Effect of forces on wave characteristics for a floating elastic plate	Proc. 4th Int'l Conf on Hydrodyn, Yokohama, **JAPAN**	pp. 205-210 (2000)
8	**T. Sahoo,** T. L. Yip and A. T. Chwang	Wave transmission by a floating elastic plate	Proc. 14th ASCE Engng Mechanics Division Conference Austin, TX**, USA**	CD-ROM (2000)
7	**T. Sahoo,** A. T. Chan and A. T. Chwang	Effect of surface tension on wave characteristics past a porous barrier	Proc. 9th Intern'l Offshore and Polar Engng Conference, Breast, **France**	Vol. 3, 247-252 (1999)
6	A. T. Chan, **T. Sahoo** and A. T. Chwang	Reflection of water waves by sloping porous structures	Proc. 9th Intern'l Offshore and Polar Engng Conference, Breast, **France**	Vol.3, pp743-748 (1999)
5	**T. Sahoo,** MM Lee & A. T. Chwang	Wave trapping by vertical permeable barriers near wall	Proc. 8th Asian Congress on Fluid Mechanic, Shen Zhen, **China**	pp. 317-320 (1999)
4	**T. Sahoo**	On three unified approaches in problems of scattering of water waves by vertical barriers	Proc. on Special functions and differential equations Allied Publ, **India**	pp. 449-455 (1998)

3	Chakrabarti, A. and **Sahoo, T**	On reflection of water waves by a vertical wall in the presence of surface tension	Rev. Bull. Calcutta Math. Soc. Proceedings of the Seminar on Continuum Mechanics	**5** (1997), 95-100
2	**T. Sahoo**	On porous wavemaker problems	Proc. 2nd Intl. Conf. on Hydrodyn, **Hong Kong**	pp. 421-426, 1996
1	Chakrabarti, A. and **Sahoo, T**	Reflection of waterwaves by a porous nearly vertical wall	Rev. Bull. Calcutta Math. Soc. Proceedings of International Symposium on Mathematical Physics with Special Sessions on Bose's Works, Part I (Calcutta, 1994)	**3** (1995), 31-42

29. Details of invited talk/paper presentation in Conferences/Symposium/short-term course

Sl. No.	Title of paper	Name of the conference/Workshop	Period and location	Presentation/ Invited Talk
92	Mathematical Challenges in Hydroelasticity	International Workshop on Mathematical and Computational Methods in Science and Engineering (IWMCMSE)	IIT Ropar 2-13, June 2023	Invited talk
91	Expansion formulae for wave-structure interaction problems in the context of blocking dynamics	International Conference on Recent Advances in Applied Mathematics (RAAM -2023)	BITS PILANI, Dubai Campus, 20-22, June 2023	Invited talk
90	An Introduction to Water Waves and Distribution of Wave Heights	Resource person for an online guest lecture	Amity Institute of Applied Sciences, Amity University Jharkhand 28th April 2023	Invited talk
89	Mathematical challenges in the blocking dynamics of flexural gravity waves - an overview	Int'l Conference on Mathematical Analysis and Application & OMS-2023	IMA, Bhubaneswar 21-22, January 2023	Invited talk
88	Introduction to water waves and wave height distribution	3rd International Workshop on Numerical and Analytical Techniques in Engineering Problems (IWNATEP)	SRMIST, Chennai, 29-31, January 2023	Invited talk
87	Hydroelastic analysis of very large floating structures in the context of blocking dynamics: an overview	88th Annual Conference of The Indian Mathematical Society An International Meet (IMS-2022)	27-30, December, 2022 BIT, Mesra	Invited talk
86	Flexural-gravity wave scattering by a crack in a floating ice sheet within the framework of blocking dynamics	67th Congress of the Indian Society of Theoretical and Applied Mechanics (ISTAM 2022)	14-16, December, 2022 IIT, Mandi	Invited talk
85	Fourier-type expansion formulae in wave-ice interaction problems	AMSI AustMS Workshop on Mathematics of Sea Ice and Ice Sheets	9-11, November, 2022 Adelaide University, Australia	Invited talk
84	Blocking Dynamics of Flexural Gravity Waves: An Overview	Invited talk at NIT Calicut	6th April, 2022 Dept. of Mathematics, NIT Calicut	Invited talk
83	Recent developments on blocking dynamics of flexural gravity waves	49th OMS Conference	25-26, March 2022 Utkal University, ODISHA	Invited talk

82	Integral Transform Techniques and Method of Steepest descent in Hydroelasticity : An Overview	2nd International Workshop on Numerical and Analytical Techniques in Engineering Problems(IWNATEP-2022)	19-21, January 2022 SRMIST, Chennai	Invited talk
81	Scattering of flexural gravity wave due to two articulated submerged plates within the framework of blocking dynamics	International Workshop on the Mathematics of Sea Ice and Ice Sheets	10-12, November 2021 University of Southern Queensland, Australia	Invited talk
80	Mathematical challenges associated with blocking dynamics of flexural gravity waves	*International Webinar on Contemporary Problems on Mechanics and Vibration*	20-22, May 2021 BITS PILANI, Hyderabad Campus, INDIA	Invited talk
79	Blocking Dynamics of Flexural Gravity Waves- a brief overview	*48th OMS Conference*	10-11, April 2021 IMA, Bhubaneswar, INDIA	Prof. S. P. Mishra memorial talk
78	Characteristics of the eigen-systems for wave-ice interaction problems in the context of blocking dynamics of flexural gravity waves	*Mathematics of Sea Ice and Ice Sheets* (CARMA_2020)	University of New Castle, Australia 9-12, November 2020	Invited talk
77	Bragg scattering of surface gravity waves due to an array of floating and submerged structures in the presence of multiple undulations	The International Workshop on Numerical and Analytical Techniques in Engineering Problems	SRM University 12-13, November 2020	Invited talk
76	Expansion formulae for wave-structure interaction problems: Present status and future prospective	Int'l Conference on advances in differential equations and numerical analysis (ADENA2020)	12-14 October 2020 Dept. of Mathematics IIT Guwahati	Invited talk
75	Expansion formulae for wave-structure interaction problems in the context of flexural gravity wave blocking	ATAL Faculty Development Programme sponsored by AICTE	17-18 September 2020 Dept. of Mathematics, IIT Guwahati	Resource person: delivered two invited talks
74	Bragg scattering of surface gravity waves over submerged trenches and coastal structures			
73	Recent developments on wave interaction with coastal structures	Calcutta University	6th February, 2019 (Delivered two talks)	Invited talk
72	Mathematical Challenges in Hydroelasticity			
71	Introduction to water waves and coastal processes	Training program for senior executives of ONGC	7-8, March, 2018 (organized by IIM Kolkatta)	Resource person (delivered six hours talks)

70	Mathematical Challenges on Wave-Structure Interaction Problems in the Context of Coastal Engineering	**NCMTA-2018** (National conference on mathematical techniques and applications)	5-6, January, 2018 Dept. of Mathematics, SRM University, Chennai	Delivered an invited talk and chaired a session
69	Fourier Analysis and Allied Methods in the Hydroelastic Analysis of Floating and Submerged Structures	TOPAS_2018 (A National Conference on Engineering Mathematics)	16-17, December, 2017 Dept. of Mathematics, IIT Kharagpur	Invited talk
68	Mathematical Challenges in Coastal/Subsea Engineering	Invited talk at Dept. of Mathematics, IIT Ropar	7th August, 2017	Invited talk
67	Mathematical Challenges for mitigating Coastal Disasters	National Conference on " Advances in Mathematics and its Application " along with 44th Annual Conference of Odisha Mathematical Society	31st March to 1st April, 2017, Dept. of Mathematic, Ravenshaw Univ., Cuttack, ODISHA	Delivered Prof. Shankar Prasad Mishra Memorial Lecture as an invited talk
66	Water Waves and Very Large Floating Systems	Mechanics of floating and Submerged Bodies under MHRD TEQIP-II program	8-10, Feb, 2017 IIT Kharagpur	Resource person
65	Mathematical challenges in hydroelasticity in the context of ocean engineering	82nd Annual Conference of Indian Mathematical Society (IMS), 2016	27-30, December, 2016, Kalyani University, West Bengal	Invited talks
64	Wave trapping by porous structures located near a sea wall	National Conference on Tropical Metereology: Climate Change and Coastal vulnerability, (TROPMET-2016)	18-21, Dec.,2016 SOA University, Bhubaneswar, ODISHA	Invited talks
63	An overview on mathematical challenges in hydroelasticity in the context of ocean engineering	One week course on Computational Methods in Hydroelasticity offered under the GIAN program	12-16, Dec., 2016 IIT Kharagpur	Resource person
62	Integral equation and allied methods in the hydroelastic analysis of ocean structures	One week course on Computational Methods in Hydroelasticity offered under the GIAN program	12-16, Dec., 2016 IIT Kharagpur	Resource person
61	An overview on the mathematical challenges in hydroelasticity	Workshop on Fluid Mechanics: Modeling, Analysis and Computation	14th – 17th July 2016 IIT Patna	Invited talks
60	Introduction to water waves and coastal processes	Workshop on Numerical Ocean Wave Modelling	29-30, April, 2016 VIT, Vellore	Delivered 7 lectures
59	Integral equation and allied methods in the hydroelastic analysis of coastal structures	Workshop on Fluid Mechanics: Modeling, Analysis and Computation	14 – 17, July 2016 IIT Patna	Invited talks

58	Integral equations and allied methods in the hydroelastic analysis of marine structures	National Conference on Emerging Trends in Physics of Fluids and Solids (NCETPFS-2016)	3-4, March, 2016, Dept. of Mathematics, Jadavpur University	Invited talk
57	Coastal Processes and Coastal Structural Design	Training course for Adani on coastal processes and coastal structural design	22-24, Jan-2016 & 19-20, Feb-2016 held at Ahmedabad, India	Series of 15 invited lectures
56	Integral equation and allied methods for wave interaction with coastal structures	43rd Annual Conference of Orissa Mathematical Society	16-17, January, 2016 held at Indus Engng College, Bhubaneswar	Invited talk
55	Mathematical Challenges in Hydroelasticity in the Context of Marine Science and Technology	7th National Conference on Wave Motion and vibration	21-23, December, 2015 held at Dept. of Applied Mathematics, ISM Dhanbad	Key note address
54	Introduction to coastal processes	AICTE sponsored short- term course on offshore and coastal engineering	July, 2015 IIT, Kharagpur	Invited talk
53	Introduction to Water Waves	AICTE sponsored short- term course on Numerical Ocean Hydrodynamics	June, 2015 IIT, Kharagpur	Invited talk
52	Expansion formulae for wave-structure interaction problems and characteristics of the associated eigen-systems	42nd Annual Conference of OMS	Jan, 2015 Vyasanagar Autonomous College, Jajpur Road, ODISHA	Invited talk
51	Series of six lectures to four batches of Govt. officers of Gujarat	ICZMP training program with Gujarat Perspective	In Four phases during 2014-2015 academic session	Resource person
50	Series of six lectures to one batch of Govt. officers of West Bengal	ICZMP training program with West Bengal Perspective	May, 2014	Resource person
49	Challenges on Marine Hydrodynamics Research	Applied Mathematics Dept. Calcutta University	June, 2014	Invited talk
48	Contemporary methods for wave-structure interaction problems	DIAT, Pune	March, 2014	Invited talk
47	Mathematical challenges in Hydroelasticity	41st Annual Conference of OMS & Intl Conference on Industrial Mathematics,	January, 2014, KIITS Bhubaneswar	Invited talk
46	Storm surges and tsunami	IMU Visakhpatnam Campus	Sep. 2013, IMU, Visakhpatnam Campus	Invited talk
45	Introduction to water waves and coastal processes	IMU, Visakhpatnam Campus	28-30, March, 2013.	Invited talk
44	Contemporary approaches for wave interaction with flexible structures	Workshop on non-linear wave propagation	14-18, January, 2013 NIT, Durgapur	Invited talk

43	Mathematical techniques for wave interaction with flexible structures- contemporary Calcutta	ICFMSA-2012	7-9 December, 2012, Mathematical Society, Kolkatta	Invited talk
42	An overview on the expansion formulae for wave structure interaction Problems	Indo-UK Symposium on recent advances in Industrial and Applied Mathematics	November, 2011, Dept. of Mathematics, IIT Bombay,	Invited talk
41	Fourier Analysis and Allied Methods on Wave Structure Interaction problems	Visit to IIT Bhubaneswar (Awareness program on Marine Hydrodynamics)	June, 2010, IIT, Bhubaneswar	Invited talk
40	Mathematical techniques for Wave interaction with floating Structures	Visit to IMA, Bhubaneswar (Awareness program on Marine Hydrodynamics)	June, 2010, IMA Bhubaneswar	Invited talk
39	Contemporary approaches on Wave Structure Interaction Problems Kolkatta(19-21, May, 2010)	Visit to Jadavpur University (Awareness program on Marine Hydrodynamics)	May, 2010, Jadavpur University, Kolkatta	Invited talk
38	Expansion formulae in Wave Structure Interaction Problems.	International Conference on Mathematical Modeling and Applications to Industrial Problems	26th March- 29th March, 2011, NIT, Calicut, Kerala	Invited talk
37	Introduction to water waves and associated coastal processes	Work shop on Oceanographic processes	6^{th} – 16^{th} July, 2010, IIT, Kharagpur	Delivered 6 lectures
36	Boundary integral equation methods in water wave problems	Workshop on Computational methods (AICTE Sponsored program)	9-10, September, 2009, CV RAMAN Institute, Bhubaneswar	Invited talk
35	Effect of current on wave structure interaction problems	National workshop in recent trends in Fluid Dynamics	7^{th} March, 2009 Utkal Univ. ORISSA	Invited talk
34	Effect of jet like current on flexural gravity waves	3^{rd} Int'l Conference in Ocean Engg.	1 - 5 February, 2009, IIT Madras	Contributed Talk
33	On contemporary approaches on wave-structure interaction problems	35^{th} Annual Conference of Orissa Mathematical Society	February, 2008 SB Womens College' Cuttack	Invited talk
32	Hydroelastic analysis of multiple articulated floating elastic plate	22^{nd} Int'l Conf. on Theoretical and Applied Mechanics, The Univ. of Adelaide, Australlia	26^{th} – 30^{th} August,2008, Adelaide	Contributed talk
31	Fourier Analysis and Allied methods in Hydroelasticity	Int'l Workshop on Complex Systems in Fluid Flows and Sedimentation Processes (IWCSFFSP-07)	27-31, August, 2007, ISI, Kolkata	Invited talk
30	Scattering of flexural gravity waves by abrupt change in water depth	6^{th} Int'l Congress on Industrial and Applied Mathematics (ICIAM-2007)	16-20 July, 2007, Zurich, Switzerland	Contributed talk
29	Effect of Uniform Current On Flexural Gravity Wave Propagation	A national conference on Fluid Dynamics and Applications under Special Assistance Program of UGC	24^{th} March, 2007, Mathematics Dept., Utkal University	Invited talk

28	Application of Boundary Integral Equation Methods in Water Wave Problems	Instructional Conference on Mathematical Methods in Science and Engineering Computation	24th February,2007, Mathematics Dept., Utkal University	3 hours invited Lectures
27	Application of Fourier Analysis in Hydroelasticity	34th Annual Conference of Orissa Mathematical Society (2006-07)	29-30, Jan, 2007, V.N.College, Jajpur, ODISSA	Invited talk
26	Boundary integral equation methods and its application to water wave problems	Workshop on Computational Methods in Science and Engineering (COMISE-2007) A AICTE FDP Workshop	26th January, 2007, C.V. Raman Institute of Technology, BBSR, ORISSA	3 hours invited lecture
25	Transformation of flexural gravity waves due to heterogeneous boundaries	Indian Science Congress	2-7, January, 2007 Anamalai University	Invited talk
24	On integral equation methods	Short term course on Fluid Mechanics	6th -9th Nov, 2006 Bangalore Univ. INDIA	3 hours invited lectures
23	Scattering of flexural gravity waves by an infinite step	Int'l Conf. on Frontiers on Fluid Mechanics(ICFFM), Bangalore University, INDIA	pp. 487-496, 26-28, Oct., 2006	Invited talk
22	Flexural gravity wavemaker problem-revisited	Int'l conf. on Application of Fluid Mechanics in industry and environment (ICAFMIE-2006)	28th -31st August, 2006, held at Indian Statistical Institute, Kolkata, India	Invited talk
21	Expansion formula in wave structure interaction problems-revisited	22nd Int'l Workshop on Water Waves and Floating Bodies (IWWWFB-2006)	2 -5, April-2006 Loughborough University, UK	Invited talk
20	Wave trapping by Porous and Flexible Barriers in a Two- layer Fluid	15th Int'l Conference of the Int'l Society of Offshore and Polar Engineers (ISOPE-2005)	19-24, June-2005 Seoul, South Korea	Presentation
19	Interaction of surface waves with floating and submerged flexible structures	National Workshop on advances in Fluid Mechanics and Applications	19-20, March, 2005 Utkal University, ORISSA, INDIA	Invited talk
18	Wave interaction with floating and submerged rectangular dikes in a two- layer fluids	Int'l conf. on Conservation, restoration and Management of Lakes and Coastal Wetlands (LAKE-2004)	9-13, Dec – 2004 Bhubaneswar, ORISSA, INDIA	Presentation
17	Expansion formulae based on mixed Fourier transform for a class of boundary value problems in Hydroelasticity	National workshop on advances in Fluid Mechanics and applications	26-28, March, 2004 Utkal University, ORISSA, INDIA	Invited talk
16	Orthogonal Relations in Wave-structure Interaction Problems in Single and Double Layer Fluids	31st Annual conf. of Orissa Mathematical Society, ORISSA	7-8, February-2004 Institute of Physics, Bhubaneswar, INDIA	Invited talk

15	Wave interaction with a horizontally floating membrane in the presence of current	Int'l Conf & Workshop on Industrial Mathematics (ICIWIM-2002)	Dec.- 2002, IIT Bombay, INDIA	Invited talk
14	Interaction of surface waves with flexible structures- Progress and prospects	Seminar 2002, Marine Hydrodyn, Prospects & Progress in Indian Context	Feb-2002 NSTL Visakhapatnam, India	Invited talk
13	On the expansion theorems of velocity potentials in hydroelastic wave problems	Int'l Conf on Recent Trends in Appl. Math (ICRAMS-2000)	Dec.-2000 IIT, Kharagpur, INDIA	Invited talk
12	Effect of forces on wave characteristics for a floating elastic plate	4th Int'l Conference on Hydrodynamics (ICHD 2000)	7-9 , Sept.-2000 Yokohama, JAPAN	Presentation
11	Wave transmission by a floating elastic plate	14th ASCE Engineering Mechanics Conference (EM-2000)	21-24 May, 2000 Texas Univ, USA	Presentation
10	On the interaction of surface waves with a semi-infinite elastic plate	10th Int'l Conference on Offshore and Polar Engineering (ISOPE 2000)	28 May – 2 June, 2000, Seattle, USA	Presentation
9	Wave trapping by porous and flexible barriers	Annual Meeting 1999-2000 of Hong Kong Soc.of Theoretical and Appl. Mech.	25th March, 2000 Polytechnic Univ. HK	Presentation
8	Wave trapping by vertical permeable barriers near wall	8th Asian Congress on Fluid Mechanics (ACFM-1999)	6-10, Dec.-1999, ShenZhen, China	Presentation
7	Effect of surface tension on wave characteristics past a porous barrier	9th Int'l conference on offshore and polar Engineering (ISOPE-99)	30th May – 4th June, 1999, Brest, France	Presentation
6	Wave trapping by porous structure	Annual meeting of Hong Kong Society of Theoretical and Applied Mechanics	March, 1999 HKUST, Hong Kong	Presentation
5	Scattering of obliquely incident water waves by permeable barriers	Annual meeting of Hong Kong Society of Theoretical and Applied Mechanics	1st March, 1998 The University of Hong Kong	Presentation
4	On three unified approaches in problems of scattering of water waves by vertical barriers	Workshop on Special Functions and Differential Equations	13-24, Jan-1997 Inst. of Math. Sciences, Chennai, INDIA	Invited talk
3	On the numerical evaluation of singular integrals	International Conference on Stochastic and Numerical Modeling and Applications	6-8, January, 1997, Utkal University, Bhubaneswar	Presentation
2	Scattering of water waves by vertical barriers in the presence of surface tension : A new approach	22nd Annual Conference of Orissa Mathematical Society, INDIA	3-4 March, 1995 Ravenshaw College, Cuttack, INDIA	Presentation
1	Reflection of water waves by a porous nearly vertical wall	S. N. Bose Centenary Int'l Symposium on Mathematical Physics	1-7 January, 1994, Calcutta Math. Society, Calcutta	Presentation

30. Best Paper presentation award by students

a. Mr Gaurav Saxena (Dual Degree student working under my guidance) bagged the best paper presentation award in ISTAM-2003 (51st International Conference of the Indian Society of Theoretical and Applied Mechanics) held at

BITS, Mesra, INDIA

b. Mr. Joydip Bhattacharjee (RS, CSIR-individual working under my guidance) bagged the best paper presentation award in ISTAM-2004 (52nd International Conference of the Indian Society of Theoretical and Applied Mechanics) held at NIT, Rourkela, INDIA

31. Student score on various courses taught at IIT Kharagpur since academic session 2010-2011

Sl. No	Course Name	Course Number	Academic Session	Score out of 5
1	Coastal Engineering	NA60006	2010-2011(Autumn)	4.0
2	Design Problems in Ocean Engg	NA69005	2010-2011(Autumn)	4.57
3	Hydroelasticity	NA60014	2010-2011(Spring)	4.17
4	System Design Problems	NA69004	2010-2011(Spring)	4.67
5	Marine Hydrodynamics	NA21001	2010-2011(Spring)	3.20
6	Elements of Ocean Engineering	NA31001	2011-2012(Autumn)	3.20
7	Coastal Engineering	NA6006	2011-2012(Autumn)	3.91
8	Hydroelasticity	NA60014	2011-2012(Spring)	4.12
9	Ocean Hydrodynamics	NA60003	2012-2013(Autumn)	4.57
10	Design Problems in Ocean Engg	NA69005	2012-2013(Autumn)	4.67
11	Coastal Engineering	NA61001	2012-2013(Autumn)	4.38
12	System Design Problems	NA69004	2012-2013(Spring)	4.57
13	Hydroelasticity	NA60014	2012-2013(Spring)	3.5
14	Ocean Hydrodynamics	NA60003	2013-2014(Autumn)	4.6
15	Coastal Engineering	NA61001	2013-2014(Autumn)	4.06
16	Design Problems in Ocean Engg	NA69005	2013-2014(Autumn)	4.33
17	System Design Problems	NA69004	2013-2014(Spring)	4.20
18	Hydroelasticity	NA60014	2013-2014(Spring)	4.16
19	Coastal Engineering	NA61001	2014-2015(Autumn)	4.30
20	Design Problems in Ocean Engg	NA69005	2014-2015(Autumn)	4.35
21	System Design Problems	NA69004	2014-2015(Spring)	4.23
22	Hydroelasticity	NA60014	2014-2015(Spring)	3.93
23	Coastal Engineering	NA61001	2015-2016(Autumn)	3.79
24	Design Problems in Ocean Engg	NA69005	2015-2016(Autumn)	4.18
25	Hydroelasticity	NA60014	2015-2016(Spring)	3.89
26	System Design Problems	NA69004	2015-2016(Spring)	3.96
27	Coastal Engineering	NA61001	2016-2017(Autumn)	4.20
28	Design Problems in Ocean Engg	NA69005	2016-2017(Autumn)	4.03
29	Hydroelasticity	NA60014	2016-2017(Spring)	4.38
30	System Design Problems	NA69004	2016-2017(Spring)	3.81
31	Ocean Hydrodynamics	NA60003	2017-2018(Autumn)	4.22
32	Coastal Engineering	NA61001	2017-2018(Autumn)	4.0
33	Hydroelasticity	NA60014	2017-2018(Spring)	3.32
34	Marine Hydrodynamics	NA21001	2017-2018(Spring)	4.30
35	Ocean Hydrodynamics	NA60003	2018-2019(Autumn)	4.67
36	Coastal Engineering	NA61001	2018-2019(Autumn)	3.92
37	Hydroelasticity	NA60014	2018-2019(Spring)	3.97
38	Marine Hydrodynamics	NA21001	2018-2019(Spring)	3.83
39	Ocean Hydrodynamics	NA60003	2019-2020(Autumn)	4.42
40	Coastal Engineering	NA61001	2019-2020(Autumn)	3.86
41	Ocean Hydrodynamics	NA60003	2020-2021(Autumn)	4.18
42	Coastal Engineering	NA61001	2020-2021(Autumn)	4.17

43	Hydroelasticity	NA60014	2020-2021(Spring)	4.05
44	Ocean Hydrodynamics	NA60003	2021-2022(Autumn)	4.53
45	Coastal Engineering	NA61001	2021-2022(Autumn)	4.72
46	Hydroelasticity	NA60014	2021-2022(Spring)	4.12
47	Ocean Hydrodynamics	NA60003	2022-2023(Autumn)	4.40
48	Coastal Engineering	NA61001	2022-2023(Autumn)	4.18
49	Hydroelasticity	NA60014	2022-2023(Spring)	4.47

32. Research and academic activities

The primary research interest of Prof. Trilochan Sahoo is to develop and generalize mathematical tools for dealing with hydroelasticity and coastal hydrodynamics problems arising in Ocean Engineering with a focus on the promotion of interdisciplinary research on mathematical sciences. His expertise includes both analytic and numerical methods based on the application of Fourier Analysis, Complex function theory, Integral equation techniques, Boundary element methods, Theory of Integral transforms, Theory of Bessel functions, Least square approximation method and Green's function techniques. The development of expansion formulae associated with Laplace equations satisfying higher-order boundary conditions, which are non-Sturm Liouville in nature, are some of his unique contributions to Applied Mathematics. These studies are supported by the convergence analysis of various infinite series and integrals and the derivation of the characteristics of the associated eigenfunctions using complex function theory. Another major contribution is the derivation of systems of Fredholm integral equations and associated analysis for solving a class of complex wave-structure interaction problems arising in coastal engineering. The study on wave trapping by porous structures for finding optimum load on sea walls in single and two-layer fluids is some of his unique contributions to coastal engineering problems. His work on the coupling of eigenfunctions expansion and boundary element method and use of mild-slope approximation method to solve wave-structure interaction problems on the variable sea bed are some of his unique contributions. His recent interests include wave past porous structures in homogeneous and stratified fluids, wave transformation over viscoelastic and poroelastic beds, blocking of flexural gravity waves in a homogeneous and stratified fluid, wave interaction with subsea pipelines and wave loads on floating bridges and submerged floating tunnels. As a part of his research activities, he has been involved in 12 sponsored projects funded by various funding agencies such as MHRD, MoES, DST and DRDO as PI/Co-PI since he joined IIT Kharagpur in 2000. Prof. Sahoo has published **140** papers in refereed journals including JFM, Physics of Fluids and Proc. Roy. Soc. of London, Ser. of which 62 papers are published in MathScience Net journals and the rest of the manuscripts are in allied journals of interdisciplinary nature. Besides, he has published **107** papers in refereed International Conferences including IWWWFB, ISOPE, ICTAM, ICIAM and OMAE, a single-authored research monograph (IIT Kharagpur research Monograph) entitled Mathematical techniques for wave interaction with flexible structures published by CRC Press, USA in 2012 and a Book Chapter. The quality of his research publications and his citation index is a reflection of the high standard of research work pursued by him. He has delivered close to **100** talks at different conferences/symposia and workshops and chaired sessions at various international conferences both in India and abroad. His publications demonstrate the interdisciplinary nature of his research work. Moreover, he is pursuing interdisciplinary research in collaboration with researchers from Mathematics and Engineering Science disciplines and guiding scholars having a background in Applied Mathematics or Engineering Sciences. There are 3224 citations of his published research work as per the google scholar database with H-index 32 and i10-index 92. Currently, Prof. Sahoo is working as a member of the editorial board of two International journals of Ocean Engineering namely; Applied Ocean Research and Journal of Engineering for Maritime Environment and serving as a reviewer of a large number of refereed journals. He is serving as the associate editor of the Journal of Ocean Engineering and Marine Energy and acting as a review editor of the Journal of Frontiers in Energy Research. He has guided 15 PhD students, 9 post-doctoral fellows and supervised more than 75 UG and PG projects during the last twenty-two years. At present, he is supervising the research work of three PhD students and one N-PDF. Moreover, he is in active research collaboration (leading to joint publication) with a few faculty colleagues in India and abroad. He served as the research coordinator of OASTC IIT Kharagpur (a research cell of MoES, Govt. of India for promoting research in Ocean Science and Technology) from July 2009 to June 2013. Prof. Sahoo has contributed significantly to the student/administrative activities at IIT Kharagpur in the capacity of Asst Warden,

Warden and Coordinating Warden (mess), Head of the Department, Professor-In-Charge, Human Resource Development and Training (non-faculty) and Associate Dean (HR) at IIT Kharagpur. Apart from his contribution to teaching, research and academic administration, Prof. Sahoo has engaged himself in various outreach programs for promoting ocean engineering education and research and creating awareness of marine hydrodynamics through interdisciplinary academic activities. He has organized and/or served as a resource person in several outreach programs such as conferences, workshops, short-term courses and training programs and has delivered several invited talks. Prof. Sahoo has been elected as a fellow of the West Bengal Academy of Science and Technology (WAST) since 2018. Moreover, he has been recognized as the outstanding reviewer of three Internationals journals namely; Applied Ocean Research, J. Fluids and Structure and Eng Anal with Boundary Elements. Last but not least, he has been engaged in various social welfare and community activities. Recently, he is featured among the top two per cent influential scientists in the world as per the Scopus database compiled by researchers at Stanford University, USA for the last two consecutive years.