

Dr. Talal ETRI

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1. CONTACT INFORMATION

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2. RESEARCH INTEREST

My main research interest is the numerical models for simulating hydrodynamics, sediment dynamics, morphodynamics and coastal changes of the coastal areas including short, medium- and long-term numerical modelling of morphodynamics.

The objective of using these numerical models is to analyse the physical processes on ocean-coastal- and estuarine scale and to assess their impact on coastal evolution on variable time scales. In addition, I am involved in several ongoing national and international under and post graduate programs at several universities in Libya and Germany.

Since 2003, I am giving lectures on several topics related to hydrodynamics, coastal engineering, water resources and environmental engineering (Fluid Mechanics, Hydrology, Environmental Engineering, Hydraulics, Hydraulic structures).

3. EDUCATION

- **PhD. in Coastal Geosciences and Engineering, December 2007**, Christian-Albrechts-Universität zu Kiel, Germany
- **M.Sc. in Computational Engineering, October 2002**, Ruhr-Universität Bochum, Germany - Okayama University, Japan
- **B.Sc. in Civil Engineering, April 1995**, University of Tripoli, Faculty of Engineering, Tripoli – Libya

4. Academic and Professional Experiences

- **Jan. 2020 to present** (full time)
 - Assistant Professor at Civil Eng. Dep., Sultan Qaboos University, Oman.
- **Sep. 2019 to Jan. 2020** (One semester)
 - Visiting Instructor at Civil Eng. Dep., Sultan Qaboos University, Oman.
- **Sep. 2013 to present** (full time)
 - Assistant Professor at Civil Eng. Dep., The University of Gharyan, Libya.
 - Head of the scientific committee of the civil Eng. Dep.
- Sep. 2013 to July 2018** (Part time)
 - Assistant Professor at The Libyan Academy , Tripoli, Libya.
 - Assistant Professor at The Alrefaq University , Tripoli, Libya (Private University)
- **Sep. 2013 to July 2018** (Part time)
 - Assistant Professor at Azzaytuna University, Tarhuna, Libya.
- **Dec. 2007 to July 2013** (full time)
 - Assistant Professor at Christian-Albrechts-Universität zu Kiel, Germany
 - Member of Coastal Research Laboratory (CORELAB) University of Kiel.

- Member of Technology and research centre West coast (FTZ) University of Kiel.
 - Involved in many coastal projects in Germany, Brazil, Saudi Arabian and Indonesia.
 - **Apr. 2003 to Dec. 2007**
PhD. Candidate at Christian-Albrechts-Universität zu Kiel, Germany
 - **Oct. 2000 to Oct. 2002**
M.Sc. from Ruhr-Universität Bochum, Germany - Okayama University, Japan
 - **Oct. 2000 to Apr. 2002** Computational Eng., Ruhr Universität Bochum, Bochum, Germany
 - **Apr. 2002 to Oct. 2002** Master thesis at Okayama University, Okayama, Japan
 - **May 2000 to Sep. 2000**
German course for beginners at Hartnackschule, Berlin, Germany
 - **Aug. 1998 to Apr. 2000**
In-site supervisor Eng., National Consulting Bureau, Tripoli, Libya
 - **Jul. 1997 to Jun. 1998**
In-site supervisor Eng., Brega and Ras Lanuf Higher committee (National service), Brega, Libya
 - **1995 to may 1997**
Providing technical assistance to several consulting bureaus, free work, Libya
 - **1990 to 1995**
B.Sc. degree from University of Tripoli, Tripoli, Libya
 - **1987 to 1990**
General secondary school certificate, scientific division, Ali Wraith secondary school, Tripoli, Libya
 - **1984 to 1987**
Preparatory school certificate, Ali haidar Al-Sahatee preparatory school, Tripoli, Libya
 - **1978 to 1984**
Elementary school certificate, Al-Falouga elementary school, Tripoli, Libya
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5. CONFERENCES AND WORKSHOPS

- 1) International Workshop on Wave propagation Moving load - Vibration Reduction (WAVE2002), Okayama, Japan, 18-20 September 2002
- 2) Meersumwelt-Symposium, Hamburg, 7-8 June, 2005
- 3) Meersumwelt-Symposium, Hamburg, 13-14 June, 2006
- 4) The 30th International Conference on Coastal Engineering (ICCE), San Diego, California, USA, 3-8 September 2006
- 5) The 7th International Conference on Hydrosience and Engineering (ICHE), Philadelphia, Pennsylvania, USA, 10-13 September 2006
- 6) The 31st International Conference on Coastal Engineering (ICCE), Hamburg, Germany, 31 August to 5 September, 2008
- 7) 1st International Remote Ocean Sensing Workshop (ROS), Büsum, Germany, 30- 31 October 2008
- 8) International Colloquium on Geoengineering, Kiel, Germany, 3 June 2009
- 9) 1st Libyan student workshop, Berlin, Germany, 26 June, 2010
- 10) Acoustic Imaging, short course, Kiel, Germany, 14-18 April 2011
- 11) Kick off SPICE III, Jakarta, Indonesia, September 25th 2012.
- 12) 6th National conference for building materials and structural engineering, 29th – 30th March 2016, Gharyan, Libya.
- 13) Workshop on Science, Technology & Innovation Observatory, 23-26 April 2018, Arab League Educational, Cultural and Scientific Organization (ALECSO), Tunis, Tunisia.
- 14) Workshop on Innovation & copyright in Libya, 6 November 2018, The Libyan Science, Technology & Innovation Indicators Observatory (LSTIIO), Tripoli, Libya.
- 15) Workshop on Science, Technology & Innovation Indicators, 26-28 March 2019, The Libyan Science, Technology & Innovation Indicators Observatory (LSTIIO), Sabratha, Libya.

6. PUBLICATIONS

• Conference Papers

- **Talal Etri**, R. Mayerle. EFFECTIVENESS OF WAVE HINDCASTS FOR FORCING MEDIUM-SCALE MORPHODYNAMIC MODELS. Proceedings of the 30th International Conference on Coastal Engineering, San Diego, California, USA, 3-8 September 2006, 2195-2207.
- **Talal Etri**, R. Mayerle. EFFECT OF STORM EVENTS ON THE MORPHODYNAMICS OF TIDALLY-DOMINATED COASTAL ENVIRONMENT. Proceedings of the 7th International Conference on Hydrosience and Engineering, Philadelphia, Pennsylvania, USA, 10-13 September 2006.
- **Talal Etri**, R. Mayerle. MORPHODYNAMICS DUE TO STORM SURGES IN A TIDALLY-DOMINATED COASTAL ENVIRONMENT. Proceedings of the 31st International Conference on Coastal Engineering, Hamburg, Germany, 31 August to 5 September, 2008, 2195-2207.
- **Talal Etri**, A. R. Hakim, and R. Mayerle. MODELLING OF MEDIUM SCALE MORPHODYNAMICS IN THE PARANAGU ESTUARINE COMPLEX IN BRAZIL. Brazilian-German Cooperation on Marine Sciences Seminar, Curitiba, Brazil, September, 2009 (Poster).
- Diem Nguyen, **Talal Etri**, R. Mayerle, and K. H. Runte. MORPHODYNAMIC MODELING OF A TIDAL CHANNEL NEAR AN OIL PLATFORM USING PROCESS-BASED MODEL. Proceedings of the 32nd International Conference on Coastal Engineering, Shanghai, China, 30 June to 5 July, 2010.
- **Talal Etri**. INTEGRATION OF FIELD MEASUREMENTS AND NUMERICAL MODELING OF COASTAL ENGINEERING. 1st Libyan student workshop, Berlin, Germany, 26 June, 2010 (Poster).
- Ibrahim Dovan, **Talal Etri** and Abdalhadee Gohl. Studying some of drinking water properties produced by water treatment units in Gyhrian city. First International Libyan Water Conference, April 24th – 26th 2018, Tripoli-Libya.
- **Talal Etri**, Ibrahim Dovan, Mohamed Altaher and Mohamed Rajab. Study of properties of light concrete produced using polystyrene. Proceedings of the 7th National conference for building materials and structural engineering, November 5th – 6th November 2018, Albhayda, Libya, 215-223.
- Ibrahim Dovan, **Talal Etri**, Abdaleem Alfahid, Salm Almshout and Nedal Ballah. Comparative study of some kinds of steel in the local market of Libya . Proceedings of the 7th National conference for building materials and structural engineering, November 5th – 6th 2018, Albhayda, Libya, 202-214.
- **Talal Etri**, Ibrahim Dovan, Aiada Abogahela and Rabee Algahwe. Numerical Modelling of pumping stations for Yefran city-Libya . Proceedings of the International conference on Technology, March 4th – 6th 2019, Tripoli, Libya, 215-223.

• Journal Papers

1. R. Mayerle, Rangaswami Narayanan. **T. Etri** and Ahmad Khairi Abd Wahab. A case study of sediment transport in the Paranagua Estuary Complex in Brazil. 2015, Ocean Engineering, Vol. 106, 161-174.
2. **Talal Etri**, Almabruk A. Sanoussi, Kahled Rashed and Entesar Gouhl. Hydrological study to analyze the water budget of the Wade Gahn dam. 2018, Journal of Pure & Applied Sciences, Vol. 17, No.2, 67-72.

9. TECHNICAL SKILLS

Delft3D and Open Delft3D Packages from Deltares (*Excellent*)
Regional Ocean Modeling System, ROMS (*Well informed*)
MIKE21 and MIKE3 from Danish hydraulic Institute (*Well informed*)
ArcGIS (*Well informed*)
MATLAB experience (*Advanced*)

Instrumentation and Control (*Well informed*)
 Programming languages and Applications (*Very good*)
 Operating Systems (*Well informed*)

10. Research Projects

Time span/place	Donor/Role	Title/Subject
November 2003 / Germany	ARCADIS CONSULT GmbH, Germany / Numerical modeller	Inspection of the construction and the operation of an offshore wind park on the Baltic Sea
May 2003 to April 2007 / Germany	KFKI, Germany / Numerical modeller	Medium-term wave modeling on the German North Sea coast
November 2009 / Germany	Landesbetrieb für Küstenschutz, Nationalpark und Naturschutz Schleswig-Holstein (LKN-SH), Germany / Numerical modeller	Evaluation of an alternative actions to improve the access situation for the harbour of Friedrichkoog city using numerical modelling
November 2006 to October 2009 / Brazil	Federal Ministry of Education and Research (BMBF), Germany / Numerical modeller	Development of Improved Strategies for Sustainable Environmental Management in Brazilian Harbours
February 2008 / Germany	Amt für Ländliche Räume Husum, Germany / Numerical modeller	Inspection of possible effects from dumping activities close to a small harbour on the western coast of the Schleswig-Holstein state
February 2009 to September 2010 / Germany	RWE-Dea company, Germany / Numerical modeller	Assessment of the Morphological developments close to an offshore oil platform
July 2010 up 2014 / Saudi Arabia	King Abdulaziz University, Saudi Arabia / Numerical modeller, technical assistants and short courses lecturer	Development of a Coastal Monitoring System for the Sustainable Environmental Planning of Jeddah Coastline, Saudi Arabia
2010 to 2014 / Germany	Regierungsvertretung Oldenburg / Numerical modeller	Hydromorphological investigations of different approaches to improve the ecological state of the lower Ems river
2011 to 2013 / Germany	Landsamt für Landwirtschaft, Umwelt und Ländliche Räume / Numerical modeller	Morphodynamic at Kieler Förde
2012 to 2015 / Indonesia	Ministry of Marine Affairs and Fisheries, Indonesia / Numerical modeller	Ocean renewable energy in the Indonesian Seas
2016 Libya	Brega Petroleum Marketing Company (BPMC) / Consultancy service	HYDROLOGICAL / HYDROGEOLOGICAL INVESTIGATION FOR BREGA ALKHUMS TERMINAL

11. Supervision of B.Sc. and M.Sc. Students

Author/Institution/Year	Role	Title
Dogan Kisacik / CORELAB, University of Kiel / 2004	scientific advisor	Investigation of the effect of Wind Park structures using non-resolved grids
Fischer, Manuel / CORELAB, University of Kiel / 2005	scientific advisor	Development, calibration and validation of a three-dimensional numerical flow model for the Kiel bight
Hermida Testa, Pablo / CORELAB, University of Kiel / 2005	scientific advisor	Hydrodynamics and sediment dynamics in the Fehmarn Belt: Simulation of a sediment dumping
Kesse, Emmanuel Kwame / CORELAB, University of Kiel / 2005	scientific advisor	Simulation of wave during a typical meteorological event in the Kiel bight
Mavromatis, Vasillis / CORELAB, University of Kiel / 2005	scientific advisor	Simulation of the wave induced currents and sediment transport in the Heilgenhafen region
Bruss, Gerd / CORELAB, University of Kiel / 2006	scientific advisor	Set-up, calibration and validation of a three dimensional numerical flow model of the Mecklenburg Bight
Leslie Malick / CORELAB, University of Kiel / 2007	scientific advisor	Development of a forward coupled three-dimensional hydrodynamic flow and wave model of the Lübeck Bight
Hendra Pangkey / CORELAB, University of Kiel / 2008	scientific advisor	Development of hydrodynamic numerical flow model for Pegametan Bay, Bali, Indonesia
Enno Dietrich / CORELAB, University of Kiel / 2008	scientific advisor	Set up of a morphodynamic model of Paranaguá Bay, Brazil
Aytac Asik / CORELAB, University of Kiel / 2008	scientific advisor	Development of a numerical model for the Elbe Estuary and the harbour of Hamburg
Farhad Nazarpour / CORELAB, University of Kiel / 2008	scientific advisor	Setting up a phase-average wave model and evaluation of its applications for Paranagua Bay in Brazil
Anne-Christine Graff / CORELAB, University of Kiel / 2008	scientific advisor	Sensitivity analysis and calibration of a sediment transport Model for Paranagua Bay, Brazil
Stefan Kraatz / CORELAB, University of Kiel / 2008	scientific advisor	Oil spill modelling and contingency planning in the bay of Paranaguá-Brazil
Alexandrova, Lidia / CORELAB, University of Kiel / 2009	scientific advisor	Development of a water quality model for the Paranaguá Bay/South Brazil
Tkachenko, Nikolay / CORELAB, University of Kiel / 2009	scientific advisor	Effectiveness of different measuring devices for the development of the Dithmarschen Bight wave model
Vargas Hernandez, Jose Mauro / CORELAB, University of Kiel / 2009	scientific advisor	Modelling of flow and sediment dynamics in the Pranaguá estuary complex, Brazil
Ebadee , Mohamed / University of Gharyan / 2015	scientific advisor	Assessment of the sewage plant for Gharyan city - Libya
Algahwe , Rabee / University of Gharyan / 2016	scientific advisor	Numerical Modelling of pumping stations for Yefran city-Libya