# Asia-Pacific Coastal Aquifer Management Meeting

### Due Date Extended Abstract: 31 July 2023

Registration link: https://forms.gle/KmGmLs6gv38JZcvq6

### 7TH ASIA PACIFIC COASTAL AQUIFER MANAGEMENT MEETING

ADMINISTRATION BUILDING@UNITEN

#### Jointly Organized by:















### Colllaborators:

21-24 August 2023

# Introduction





The 2023 APCAMM will be held Malaysia, an ideal location for the event due to its expansive coastline and diverse coastal aquifer systems. With many coastal areas in Malaysia heavily dependent on groundwater resources for daily use, the management of coastal groundwater issues has become a significant concern. The challenges faced by the country are compounded by issues such as over-extraction, pollution, and rising sea levels. To address these difficulties, Malaysia will host the APCAMM in 2023, which will bring together experts, policymakers, and community representatives to collaborate, share best practices, and develop innovative solutions for effective coastal aquifer management. This conference will enable coordinated efforts and partnerships aimed at addressing critical coastal groundwater issues, benefiting both Malaysia and international participants.

## Venue





UNITEN stands for "Universiti Tenaga Nasional," which is a private university in Malaysia specializing in energy-related fields. The **Administration Building** of UNITEN, also known as the "Chancellor Complex," serves as the main administrative hub for the university which is located in Kajang, Selangor.

The **Administration Building** at UNITEN is usually the central hub for various administrative and academic functions. It houses the university's administrative offices, including the registrar's office, finance department, human resources, academic affairs, and other administrative units. This building is where students may go for inquiries about enrollment, tuition fees, student records, and other administrative matters.

# **Trip/Field Visit**





'Natural and Human Ecosystems'

The first artificial wetland in Malaysia and the biggest in the tropics are both where **Putrajaya Wetland Park** is situated. This park holds many unique things to explore with friends and family.

The 24 wetland cells that serve as natural water filters for water coming from Sungai Chua and Sungai Bisa before it is released into Putrajaya Lake are among the key attractions here. This cell is home to several aquatic animals, birds, fish, insects, and mammals and has been planted with more than 70 plant species. Due to its distinctive natural features, this park is a great place to go camping, nature-exploring, and other activities.

Attraction : https://www.ppj.gov.my/en/second-menu/taman-wetland

- -Distant Lookout Tower
- -Flamingo Pool
- -Nature Appreciation Center
- -Cell @ Rawang Wetland

# **Themes:**

01	Groundwater numerical modelling in coastal setting	•	•	•	•
02	Groundwater-surface water interactions	•	•	•	•
03	Groundwater management	•	•	•	•
04	Coastal groundwater environment and ecosystem	•	•	•	•
05	Climate change affecting groundwater	•	•	•	•
06	Research and case study in groundwater resource	•	•	•	•
07	Groundwater pollution and contamination	•	•	•	•

# Workshop

#### 01 Advanced Geophysical Techniques for Groundwater Exploration

- This workshop will discuss the latest geophysical techniques for groundwater exploration.
- This workshop will be guided by industry experts as well as from academia.
- Fee: RM 250 for full day

### Introduction to Geological and Groundwater Modelling

- This workshop offers insights into the fundamentals of geological modelling and harnesses RockWorks capabilities for precise models.
- This workshop will be guided by industry experts using available commercial software (rockworks and visual modflow flex).
- Fee: RM 200 for full day

### **3** Understanding and Modelling Coastal

- Topics:
  - A general introduction to coastal groundwater.
  - Description of coastal processes (e.g., freshwater-seawater distribution in coastal aquifers, sea-level rise and tidal effects, SGD, and pumping effects).
  - Analytical methods for freshwater distribution in coastal aquifers (simple mathematical tools).
  - Numerical modelling (Modflow 6).
- Speakers:
  - Prof. Adrian Werner
  - Dr Cristina Solórzano-Rivas
  - Dr Amir Jazayeri
- Fee: RM 300 for full day

# Dialogue

### Dialogue on Understanding Aquifer System for Sustainable Groundwater Resource Management

- The focus of this dialogue is to discuss on how aquifer system being understood and how sustainable groundwater resource being managed in developed countries.
- The panelists will be the international and local experts and practitioners.
- Fee: Free admission (first come first serve due to limited seats)

### **Deadline:**

#### Milestone

Date

#### Remark

- Registration Open
- Closing of Extended
   Abstract submission

31 July 2023

 Presenters are encouraged to submit full paper for publication in scopus-indexed journal

### **Tentative Agenda:**

DATE	EVENT	REMARK
21 Aug 2023	Pre-conference Workshop	
22 Aug 2023	<ul> <li>Conference (Oral and Paper Presentation)</li> </ul>	
23 Aug 2023	<ul> <li>Conference</li> <li>Dialogue</li> <li>Conference Hi-Tea</li> </ul>	
24 Aug 2023	Field Visit	

### **Registration & Fees:**

- Registration fees: USD 100 (RM 450)
- Registration link: https://forms.gle/KmGmLs6gv38JZcvq6
- Payment Process:

#### IGM Bank Account CIMBBANK

Name: Institut Geologi Malaysia Account Number: 8001-2852-48 Bank Branch: CIMB KL Gateway Mall Bank SWIFT Code: UMAL101014

### Full Paper Submission (optional):

Presenters are welcomed to submit papers on any of the conference themes. The paper will be published in Bulletin of the Geological Society of Malaysia. The Bulletin is indexed in the following abstracting and indexing services and databases: Scopus, AAPG Datapages and MyJurnal/MyCite.

The Bulletin of the Geological Society of Malaysia (ISSN 0126-6187; e-ISSN 2637-109X) first published in 1967, is a peer-reviewed open access interdisciplinary journal which publishes Earth Science research that addresses not only trending research areas but also multidisciplinary application topics. The scope of published articles covers engineering geology, environmental geology, geochemistry, geomorphology, geophysics, hydrogeology, mining geology, paleontology, petroleum geology, regional geology, sedimentology, stratigraphy, structural geology and tectonics.

The Bulletin supports researchers primarily focusing on Asia/SE Asia, but is not limited to this region, and publishes research papers of both scientific and technical nature that are of current interest and have potential impact on activities such as oil & gas exploration, mining, environmental issues, earthquakes, hazard assessment, disaster risk reduction and climate change adaptation. The Bulletin also promotes geological interest on subjects of a conservation nature such as geo heritage and geo tourism.

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The Bulletin is published twice a year (May and November) by the Geological Society of Malaysia (GSM). All papers will be subjected to a double-blind review by two or more reviewers. Generally, the review process will take two months and one month will be allocated for corrections. Once accepted, the corresponding author will be informed within a month from the receipt of the revised manuscript. Those interested in submitting a manuscript should first read the Instruction to Authors.

GSM is committed to upholding standards of ethical behaviour at all stages of the publication process (see Publication Ethics) and we recommend the Committee on Publication Ethics (COPE) Best Practice Guidelines.

Authors can self-archive all versions of their work in their own web pages, institutional web pages, and another repository.

#### All correspondence pertaining to publication should be addressed to:

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- **Prof. Srilert Chotpantarat**, Chulalongkorn University (Thailand), csrilert@gmail.com

#### Workshop 2: Introduction to Geological and Groundwater Modelling



Mohamad Faruq Syahmi Md Aripin B.Sc. (Geology) (Hons.), UKM M.Eng. (Geotechnical Engineering), UTM Ph.D. Candidate (Geology). UKM Geological modelling is vital in industries like mining, environmental management, geotechnical engineering, and hydrogeology. It integrates geological data like well logs, borehole data, geophysical data, and surface data to create 3D representations of subsurface structures. This workshop offers insights into the fundamentals of geological modelling and harnesses RockWorks capabilities for precise models. Key highlights:

- Introduction to Geological Modelling: Understand its significance, applications, and principles for accurate models.
- Data Preparation and Quality Control: Learn how to handle and validate geological data for reliable modelling.
- Interpolation Techniques: Explore various interpolation methods to fill gaps in data and create seamless geological models.
- Creating 2D and 3D Stratigraphic Models: Explore constructing stratigraphic models in 2D and 3D.
- Lithology and Rock Properties Modelling: Dive into methods for modelling lithology and rock properties.
- Geological Model Applications: Discover diverse realworld uses, like resource estimation, groundwater flow analysis, and environmental site characterization.

Groundwater modelling is one of the most important tools for the hydrogeologist and groundwater modelers to describe, assess and evaluate the groundwater environment. The MODFLOW software is an open-source groundwater modelling engine distributed by United State Geological Survey. MODFLOW is integrated in several groundwater modelling software. One of the most recognised and industry standards is the Visual MODFLOW Flex software developed by Waterloo Hydrogeologic Inc. The Visual MODFLOW Flex software has the easy-to-use graphical user interface (GUI) that can be applied for groundwater flow simulations (to calculate heads and flow, predict groundwater conditions, groundwater /surface water interactions) and Solute/contaminant Transport (which simulate for information on concentrations). The application of the software to simulate and solve groundwater problems is one of the major challenges for beginners. This training is an introductory course to the groundwater flow modelling and aims to lay the basic foundation for the participant to begin modelling. Participant will be guided through the conceptual / numerical modelling workflow/steps using the Visual MODFLOW software (version 6.1) and at the end of the course, participants are expected to have developed some of the essential skills to begin their first groundwater flow modelling projects.



Dr. Mustapha Atta B. Sc. (Geology) FUT Minna, Nigeria M. Phil. (Environmental Management). UKM Ph. D. (Geology). UKM

11

#### Workshop 2: Introduction to Geological and Groundwater Modelling

Monday (21/08/23) Time	Program
8.30 am - 9.00 am	Registrations
9.00 am - 10.50 am	<ul> <li>Module 1: Introduction to Geological Modelling - Theory and Requirements</li> <li>Basic component in Geological Modelling; structural framework, rock type, and geostatistic.</li> <li>Additional component; reservoir quality, fluid saturation, and mineral deposits.</li> <li>Geologic model and visualisation; geometry model, stratigraphic model, block model, unstructured meshes.</li> <li>Predictive model; mineral exploration, oil and gas exploration, groundwater exploration.</li> <li>Numerical model; probabilistic analysis, limit equilibrium model, finite element model.</li> <li>Interpolation method for geostatistic component</li> <li>Introduction and Application for Rockworks; Petroleum, environmental, mining, geotechnical engineering, hydrogeology</li> <li>Algorithm for stratigraphic and lithologic model</li> </ul>
10.50 am - 11.05 am	Morning Tea Break
11.05 am - 12.45 pm	<ul> <li>Module 2: Creating Geological Modelling using Rockworks</li> <li>Creating Project folder</li> <li>Borehole Manager</li> <li>Project Dimension</li> <li>Stratigraphic Modelling</li> <li>Lithologic Modelling</li> <li>Model Validation</li> </ul>
12.45 pm - 2.15 pm	Lunch Break and Zohor Prayer
2.15 pm - 3.30 pm	<ul> <li>Module 3: Creating and Defining a Flow Model</li> <li>Introduction to the Visual Modflow Flex software</li> <li>Learn how to navigate the Graphical User Interface (GUI) steps for Conceptual modelling.</li> <li>Learn how to create a new project: extent of model area, model structure</li> <li>Learn how to create the model grid (Finite Differential Grid)</li> <li>Translate /convert the conceptual Model and inputs into MODFLOW Package</li> <li>Navigate the GUI steps for numerical modelling.</li> <li>Define flow property /property zones for your model</li> <li>Define Boundary condition using your processed GIS Data e.g. Constant Head, River boundary, General Head etc.</li> </ul>
3.30 pm - 3.40 pm	Afternoon Tea Break
3.40 pm - 5.00 pm	<ul> <li>Addition of map to your model: mapping an image to a coordinate system</li> <li>Module 4: Run Modflow 2005 and Model Calibration</li> <li>Run MODFLOW 2005 and generate the model</li> <li>Model calibration and understanding the quality of the model</li> <li>Understand the results and interpreted in available formats and views</li> <li>Export the model data and post processing</li> </ul>
5.15 pm	End of the workshop day

#### **Workshop 3: Understanding and Modelling Coastal Aquifer**



**Prof. Adrian Werner** 

Prof. Adrian Werner is a Professor of Hydrogeology at Flinders University. After completing a Civil Engineering Degree at Central Queensland University in 1992, he worked for the Queensland State Government until 2006 on water resources projects, specialising in surface and subsurface hydrology. Adrian completed a PhD at the University of Queensland in 2004 on the topic of coastal aquifer hydrodynamics, and holds an Associate Editor position with Advances in Water Resources (since 2012). Adrian is an active member of the National Centre for Groundwater Research and Training. Prof. Adrian recently completed an Australian Research Council Future Fellowship on the topic of Coastal Hydrogeology (2016-2020), through which he delivered world-leading knowledge on the occurrence of fresh groundwater in coastal settings. His other research interests include water-groundwater interaction, surface water resources management, and other groundwater-related topics.

Dr. Cristina completed her first degree in Civil Engineering in Honduras, which neighbours her birth country of El Salvador. In 2000, she emigrated to Barcelona, Spain, where she worked as a hydraulics engineer, specialising in the surface and urban hydrology. She moved to Australia in 2015, where she completed a Master of Science (Groundwater Hydrology) at Flinders University in 2017. Her Master's thesis ("Investigating methods to estimate the extent of fresh groundwater beneath the sea") led her to win the 2017 Ian Laing Prize of the Hydrological Society of South Australia. After her Masters, Cristina completed her PhD at Flinders University, titled "Tidal propagation and variable density processes in coastal aquifers". Dr. Cristina is a passionate about surface- and groundwater modelling, specifically interested in coupled densitydriven flow and solute transport models. Dr. Cristina is a lecturer of



Dr Cristina Solórzano-Rivas

hydraulics and water engineering for MSc and BSc civil engineering students at Flinders University.



Dr Amir Jazayeri

Dr. Amir is a multidisciplinary researcher with demonstrated achievements in the fields of coastal science and hydrogeology. His expertise has been acquired through an MSc degree in coastal science (top 10% of students) and a PhD in coastal hydrogeology, which in combination provide him with a unique set of skills for tackling multidisciplinary research questions in ocean-groundwater interactions. Amir's PhD involved the application of multiple techniques, including field and laboratory experiments and computer modelling, in creating new scientific knowledge of the groundwater dynamics of coastal unconfined aquifers. In addition to his achievements in academic research, Amir has delivered on several important industry-based research projects such as integrated coastal zone management (ICZM) to solve practical, real-world problems in coastal hydrology and hydrogeology. His research interests lie in variably saturated, variable-density groundwater flow and solute transport, and groundwater-surface water interaction, which he has numerical models, and laboratory and studied using field experiments.

### Workshop 3: Understanding and Modelling Coastal Aquifer

Monday (21/08/23) Time	Program
8.30 am - 9.00 am	Registrations
9.00 am - 10.50 am	Session 1: Introduction to Coastal Groundwater
10.50 am - 11.05 am	Morning Tea Break
11.05 am - 12.45 pm	Session 2: Description of coastal processes (e.g., freshwater-seawater distribution in coastal aquifers, sea-level rise and tidal effects, SGD, and pumping effects)
12.45 pm - 2.15 pm	Lunch Break and Zohor Prayer
2.15 pm - 3.30 pm	Session 3: Analytical methods for freshwater distribution in coastal aquifers (simple mathematical tools)
3.30 pm - 3.40 pm	Afternoon Tea Break
3.40 pm - 5.30 pm	Session 4: Numerical modelling (Modflow 6).
6.00 pm	End of the workshop day

Tir	ne	22/08/2023 (Tuesday)
Ro	om	BA-3-061
8.30 am	9.00 am	Registration
Acti	vity	Conference Opening
9.00 am	10.20 am	Doa' recite by Mr. Wan Mohd Zainuddin Mohd Zalam
		Welcoming speech by President of Institute of Geology Malaysia (IGM), P.Geol. Gs. Abd.
		Rasid Jaapar
		Opening speech by Chair APCAMM 2023, Professor Adrian Wenner
		Montaj presentation on UNITEN, IEI, and APCAMM
10.20 am	10.40 am	Paper 25 - Geochemistry of Quaternary sediments at Pantai Remis and Tanjung Karang Areas,
		Selangor
		Habibah Jamil, Norsyafina Roslan, Gloria Lia George, & Abdul Manan Abdullah.
10.50 am	11.05 am	Morning Tea Break
THEME :		Groundwater-surface water interactions
11.05 am	11.25 am	Paper 2 - Assessment of Saltwater Intrusion Potential in the Coastal Aquifer of the Lower
		Kelantan Basin
		Anuar
11.25 am	11.45 am	Paper 3 - A Simplication of Optimal Problem for Pumping Rates to Avoid Saltwater Intrusion
		to Pumping Wells: A Case Study in Long An, Vietnam
		Quy Nhan Pham*, Thanh Le Tran, Thi Thoang Ta
11.45 am	12.05 pm	Paper 4 - Saltwater intrusion under the influences of Sea Level Rise and groundwater
		exploitation in Mabul Island Aquifer
43.05	42.25	Azrul Normi Idris, Ismail Tawnie, Anuar Sefei, Khairul Anam Musa, Mohd Khairul Nizar
12.05 pm	12.25 pm	Paper 5 - Applying Aquiter Storage and Recovery (ASR) for Groundwater Extraction in Areas of
		To The Theorem & Ohem Own When Trees Theorem (on Dears Ven Cost)
12.45.000	2.15.000	Ta Thi Thoang", Pham Quy Nhan, Tran Thanh Le, Doan Van Cann
THEME -	2.15 pm	Coastal groundwater environment and ecosystem
2.15.0m	2.25 pm	Paper 6 - Sediment transport in coastal aquifers and the emergence of sand bails
2.15 pm	2.55 pm	Adrian Werner* Amir Lazaveri
2.35 pm	2.55 nm	Paper 7 - Reliability Analysis of the Water Table Eluctuation Method for Recharge Estimation
2.55 pm	2.55 pm	S Cristing Solorzano-Rives Adrian D. Werner Neville I. Robinson
2.55 pm	3.15 nm	Paper 8 - Density-variation Induced Division of Seenage Faces on Gentle Tidal Flats
2.55 p	5.15 pm	Tianwei Wana, Kexin Zhana, Hailona Li, Shenachao Yu, Jiu Jimmy Jiao
3.15 nm	3 30 nm	Paper 26 - Saltwater Intrusion in a Muda River basin Aquifer: Combining 3-D Saltwater
5.15 pm	5.50 pm	Modeling With geophysical and Geochemical Data
		Mohd Khairul Nizar Shamsuddin
3.30 pm	3.40 pm	Afternoon Tea Break
THEME :		Coastal groundwater environment and ecosystem
3.40 pm	4.00 pm	Paper 9 - Synergy of lacustrine groundwater discharge and algal biomass on CH4 and CO2
		pathways and emissions in a large shallow eutrophic lake
		Xiaoyan Shi, Xin Luo, Jiu Jimmy Jiao*, Jinchao Zuo, Xingxing Kuang, Shengchao Yu
4.00 pm	4.20 pm	Paper 10 - Data driven evolutionary optimization for heat extraction optimization of
		enhanced geothermal system
		Guodong Chen, Jiu Jimmy Jiao*, Xin Luo
4.20 pm	4.40 pm	Paper 11 - Mixed-Convection Theory: A Novel Application to Seafloor Sediments
		S. Cristina Solorzano-Rivas*, Adrian D. Werner, Dylan J. Irvine
THEME :		Climate change affecting groundwater
4.40 pm	5.00 pm	Paper 12 - Effects of Seasonally Fluctuating Temperatures on Tidally Affected Coastal
		Unconfined Aquifers
		Li Pu*
5.00 pm	5.20 pm	Paper 1 - Coastal Aquifers Of Malaysia: An Overviews Of Its Occurrence And Importance
		Ismail Bin Tawnie
5.30 pm		End of the 1st day APCAMM2023
Dining Are	ea (Whole	BA-3-060
da	y)	

Tir	ne	23/08/2023 (Wednesday)		
Acti	vity	Technical Session A		
Ro	om	Admin Theatre		
8.30 am	9.00 am	Registration		
THEME :		Research and case study in groundwater resource		
9.00 am	9.20 am	Paper 14 - Laboratory and Numerical Investigations of Pumping Effects on Tidal Coastal		
		Adulters Amir Jazaveri, Adrian Werner		
9.20 am	9.40 am	Paper 15 - Evolution of the groundwater system in the Pearl River Estuary and its adjacent		
		continental shelf since Late Pleistocene		
		Jiu Jimmy Jiao*		
9.40 am	10.00 am	Paper 16 - The understanding of groundwater-surface water interaction in Shah Alam,		
		Malaysia as a key to solve the flood problem; preliminary findings		
		Alya Batrisya Mohd Zeffry, Norsyafina Roslan, Riyan Subekti, Norshahidah Mohd Nazer,		
		Azimah Hussin , Asnor Muizan Ishak, Mohd Zaharifudin Mohd Ali, Mazatul Akmar Aros &		
		Ibrahim Lah		
10.00 am	10.20 am	Paper 17 - Laboratory and Numerical Investigations of Riparian Freshwater Lens Dynamics		
		Amir Jazayeri, Adrian Werner		
10.20 am	10.40 am	Paper 18 - Hydro-geochemistry Characteristics of Groundwater in Coastal Aquifers in Thanh		
		Hoa Province, Vietnam		
		Thi-Thao Nguyen*, Quy-Nhan Pham, Huy-Quang Tran		
10.50 am	11.05 am	Morning Tea Break		
THEME :		Dialogue on Understanding Aquifer System for Sustainable Groundwater Resource		
11.00 am	12.45 pm	Management		
11.00 am	12.45 pm	R Geol Dato' Zakaria Mohamad, Chairman of Board of Geologists Malaysia (BOG)		
		Panel:		
		1) From International perspective: Prof. Adrian Werner (Flinders University)		
		2) From Supert accounting B Cool Ismail Hi Taunia		
		2) From Expert perspective: P.Geol. Ismail HJ. Tawnie		
		3) From Practitioner perspective: -TBA-		
12.45 am	2.15 pm	3) From Practitioner perspective: -TBA- Lunch Break and Zohor Prayer		
12.45 am THEME :	2.15 pm	3) From Practitioner perspective: -TBA- Lunch Break and Zohor Prayer Groundwater numerical modelling in coastal setting		
12.45 am THEME : 2.15 pm	2.15 pm 2.35 pm	3) From Practitioner perspective: -TBA- Lunch Break and Zohor Prayer Groundwater numerical modelling in coastal setting Paper 19 - Towards minimizing initial data uncertainties or compromising with outcomes		
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