



Inaugural Lecture NED ALEF A.K. M. Rashid Lecture Series

Topic: Geosynthetics Case Studies

📅 Date: 26 August 2025 ⌚ Time: 3:00 PM to 4:45 PM

📍 Location: NED Auditorium

Join us for presentations by leading expert in the geosynthetics field, as they discuss three case histories on unique applications of geosynthetics in the industry. This webinar will include presentation of case studies on the application of geosynthetics for three projects in the United States.

- **Todd Harman** will present the **Druid Hill Reservoir Project**, which included creating a liner system to contain one half of the one-billion-gallon (55 acre) potable water storage reservoir that supplies the city of Baltimore and surrounding counties.
- **Ron MacKenzie** will discuss the **Sutter Field Construction Lining Project**, which utilized large factory fabricated liners for athletics fields. Ron will also discuss the use of impervious membranes to allow for enhanced control of water usage and exacting moisture controls.
- **Patrick Elliott** will present the **Tesla Reservoir Rehabilitation Project**, which is an equalization basin for the 28 MW Tesla Hydroelectric Power Generation Plant in Colorado Springs. The project included

NED University of Engineering and Technology (NED UET), in collaboration with the University of Illinois, introduces **NED ALEF A.K.M. Rashid Lecture Series**. These monthly lectures will be held at the NED Auditorium and will include webinars, seminars, and in-person lectures in the field of Civil/Geotechnical Engineering. **NED ALumni Endowment Fund (NED ALEF)**, established by the NED Alumni in North America, is the sponsor of these lectures.



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Program: Geosynthetics Case Studies		
3:00 PM	Welcome	Prof. Abdul Jabbar Sangi – Chair, Department of Civil Engineering, NED UET
	VC's Remarks	Prof. M. Tufail – Vice Chancellor, NED UET
	What is NED ALEF?	Engr. Tanweer Mallick – Founding (Past) Chairman, NED ALEF
	Remembering Engr. A.K.M. Rashid	
	My most unforgettable character	Engr. Saif Ahmed Saeed – Chief Executive, Geotechnical Services
	A tribute to the legendary Engr. A.K.M. Rashid	Engr. Sohail Bashir – Chairman, Institution of Engineers Pakistan, Karachi Center
	A son remembers	Engr. Haroon Rashid – Chief Executive, Finesse Corporation
	Introductory Remarks	Prof. Timothy D. Stark – Professor, University of Illinois at Urbana-Champaign
3:30 PM	Geosynthetics Case Studies	
4:30 PM	Refreshments	

upgrading the reservoir bottom liner system to a thicker CSPE membrane to handle the heavy ice, rapid draw downs, an extensive slope ballast system, and to protect the geomembrane from uplift during low water periods.

Presenters:

Patrick Elliott – Director of Installation, Colorado Lining International, Parker, Colorado

Todd Harman – President, Hallaton Linings, Sparks, Maryland

Ron MacKenzie – Chief Technical Officer, Inland Tarp & Liner, Fostoria, Ohio

👤 Open to all students and faculty

🍽️ Refreshments served after the lecture

See you there!

Engr. A.K.M. Rashid – A Profile

Abul-Khair Mohammad Rashid, also known as A.K.M. Rashid was a pioneer in soil mechanics in Pakistan. Those who he crossed paths with remember him for his technical brilliance, mentoring of numerous civil engineers, and his pioneering work in infrastructure development in Pakistan, and as an extraordinary human being. Born in Ghazipur, India, he grew up in Karachi and obtained his civil engineering degree from NED Engineering College in 1961. In 1962 he joined Swiss Boring Company in Pakistan and worked there for three life-changing years that steered him towards a 45-year long career in geotechnical engineering and infrastructure development. Among his numerous heavy civil and infrastructure projects are the iconic Habib Bank Plaza and National Stadium in Karachi, and silos, sugar mills, and bridges throughout Pakistan. From 1975 to 1982, he taught Soil Mechanics at NED in different years as an adjunct faculty member. He was a mentor to scores of his students and young engineers who worked with him at Hyderi Boring & Piling Company and at Hyderi Construction from 1965 until his passing in 2007.

