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## Message From Our CEO

In the 33<sup>rd</sup> year of providing services in the US and globally, ranging from a few hundred to multimillion-dollar projects, our commitment to quality, economical solutions and client satisfaction remains unchanged. We foster high standards and integrity in our staff.

PENTA's highly competent and experienced staff respond to an ever-changing environment of rules and regulations. Both PENTA and our professional engineers are registered to operate in 38 of the 50 States in the various disciplines.

We are providing our newsletter, "Pulse of PENTA", for you to get to know us better. It is the essence of who we are, a diverse group of individuals from many regions of the world all dedicated to serving you. I would like to invite you to read and enjoy our latest Pulse of PENTA.

*Subhash B. Mohan, P.E.  
Chief Executive Officer  
PENTA Engineering Corp.*

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## The Fact Is...



PENTA's cultural diversity starts with the nationality array of our 65 employees: US, India, Perú, Iraq, Bulgaria, Canada, Venezuela, Kenya, Mexico, Bosnia, Turkey, Nigeria, Crimea, and Chile. This strength translates into a naturally global perspective and ability to understand the

needs of clients of many different cultural backgrounds, as well as to different engineering and building norms and requirements. PENTA has performed projects in almost 40 countries, and we are eager to participate in more.

## PENTA Projects

### Complete Engineering Of Grinding Unit



PENTA provided complete engineering of a slag grinding unit for a major steel processing company in India. The company plans to utilize its significant slag reserves in the manufacturing of slag cement under a government sustainable development folio. PENTA's battery limits for the project started from the receiving of raw materials to packing and dispatching the finished product in small bags and bulk bags. PENTA prepared a technical/economic feasibility study, and completed basic

and detail engineering for process, mechanical, civil / structural, and electrical & instrumentation. PENTA also provided procurement assistance during the 16-month schedule. The slag grinding unit included two 3600 tpd roller press circuits, packaging and dispatching system, electrical equipment and balance of plant equipment.

### Greenfield Distribution Terminal

PENTA is sometimes tasked to build a fast-track solution for bulk rail transport and road tanker deliveries at the same time. For one North American customer situated in the western United States, PENTA designed, procured and constructed a secondary rail-to-truck loading system while the main terminal was under construction. The secondary system, including rail car unloading, truck loading, truck scale, operator's station and new rail siding, was



completed and fully operational within 3.5 months, prior to availability of site utilities. Power and compressed air supply needs were met with portable modular systems configured by PENTA. The main terminal consisting of rail car unloading, bulk storage, office/control building and truck loading system was completed within 10 months using extensive prefabrication and modular designs. The secondary system also handles alternate materials and can be used as a back-up. The challenges PENTA overcame to deliver a successful project included designing for a tight site that was restricted by railroad lines and utilities, designing roadways to accommodate tanker trucks with pup trailers and completing the project during the winter months by utilizing heaters to handle freezing ground conditions.

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## Employee Spotlight

### **Abdulsalam AL-Janabi, P. Eng., PhD**



We are pleased to welcome Abdulsalam “Salam” Janabi, P. Eng., PhD to our Structural Team. He has over 20 years of experience in civil and structural design with an emphasis on heavy industries including cement and above ground mining. His experience includes design of steel and concrete structures, seismic design, dynamic design of structures and foundations supporting vibrating machines like mills and fans, and engineering for the rehabilitation and strengthening of existing steel and concrete structures. Salam has published 32 research papers in engineering journals and for conferences in the field of structural behavior, structural dynamics, and foundation engineering. He also brings his computer modeling expertise to the PENTA team. When asked why PENTA, Salam said he was attracted by PENTA’s business model, diversity, and the opportunity to contribute his knowledge and participate in interesting projects. He achieved a BSC degree in Civil Engineering and PhD in Structural Engineering from the University of Basrah, Iraq.

### **Sufiano Momoh**



Sufiano “Sufiy” Momoh is a Structural Designer Engineer I at PENTA. Sufiy, an Engineer in Training (EIT), is working to get his Professional Structural Engineering License and then his Professional Engineering License. When asked why PENTA, he was quick to respond that he really felt comfortable with

the staff and the involvement of the owners during the interview process. He stated that he was attracted to the diversity at PENTA because it is like no other engineering firm he knows in St. Louis. Sufiy is Program Chair of the National Society of Black Engineers, St. Louis Gateway Professionals and an avid sportsman, playing basketball and other games at least four times a week. When he is not working out, he enjoys cooking interesting (and healthy) rice dishes. Sufiy received his Bachelor's and Master's degrees in Architecture, as well as his Civil Engineering Master's degree from the University of Southern Illinois-Carbondale. He came to the US from Warri, Delta State, Nigeria in 2009. At the age of 16 he followed his two older brothers to Southern Illinois University-Carbondale to begin his life in the US.

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## PENTA Pride

### Spreading the Word About PENTA

PENTA recently hosted 15 design students from Ranken Technical School to a scanning demonstration and panel discussion. "Being in a niche industry like PENTA, it's important that kids understand there is a lot to offer at a small firm. We want kids to see the dynamics and unique challenges of working for heavy industrial clients," stated Steve Burns, BIM Manager. The students enjoyed seeing the scan put into REVIT for real life applications.



### PENTA Goes Back to School



PENTA also hit the streets to speak to high school students about engineering as a career. Three junior engineers visited an urban college prep high school and presented the virtues of engineering to a class of 30 students. They communicated, first hand, the trials and tribulations of engineering school and reaping the rewards of an engineering career post-graduation. At the beginning of class, only a few were considering an engineering path, but after a lively Q & A, they were able to persuade a few more to look seriously at the field of engineering.

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## Stay In Touch With Us

Something you want to see in the next PENTA Pulse?

Contact us: [busdev@penta.net](mailto:busdev@penta.net)