

Daily Pacific Builder®

Volume 128 Number 44

DODGE DATA & ANALYTICS

Monday, March 7, 2016

People in the News

SmithGroupJJR Promotes Roxanne Malek

SmithGroupJJR announced recently that it has named Roxanne Malek, AIA, LEED AP BD+C, to lead the firm's Learning Studio at its San Francisco office. In her new role as studio leader, Malek will head the office's work for the higher education sector, expanding the studio's focus and diversifying its portfolio. The broader body of work will complement that of the combined Research, Learning, and Courts Studio led by Suzanne Napier.



Malek

"Our Learning Practice will benefit from Roxanne Malek's expertise in a range of project types — from complex laboratory projects to student housing. She brings great leadership, collaboration and creativity to our discussions," says Chris Purdy, learning practice leader, SmithGroupJJR.

In Malek's 19 years with SmithGroupJJR, she has demonstrated her project management and design skills while remaining at the forefront of some of the office's most notable projects. Her experience ranges from large scale academic projects to complex science and technology facilities.

Among her most significant projects are the University of California, Merced's Science & Engineering Building II, the first LEED Platinum project earned by the San Francisco office; Lawrence Berkeley National Laboratory's Molecular Foundry, an AIA East Bay award winner; and University of California, San Francisco Smith Cardiovascular Research Building, a recipient of an IIDA Northern California Honor Award.

With experience that spans across numerous academic campuses throughout California, her clients include Stanford University, University of California San Francisco, University of California Davis, University of California Merced, and University of California Berkeley.

Malek's passion for lifelong learning enhances her commitment to achieving design excellence in academic spaces. "As an architect, it is incredibly rewarding to create environments that support the dynamic learning process. Education is ever-changing, and like the students, we are continually evolving with it," says Malek.

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Golden 1 Center Construction Drone Program Wins Innovation Award

The Sacramento Kings of professional NBA basketball announced March 1 that a visual data analytics tool utilizing drones capturing high-resolution video and photos, piloted at the new \$500 million Golden 1 Center construction site, earned an award for innovation from the Turner Construction Company. This is the fourth year that Turner has highlighted outstanding innovations and achievements.

A team from University of Illinois, funded by a nearly \$1 million National Science Foundation Cyber-Physical Systems (CPS) grant, developed a predictive visual data analytics tools to automate and streamline today's time-consuming practices for construction progress monitoring. Turner implemented the technology as a pilot program during the construction of Golden 1 Center.

This award-winning solution utilizes both images and videos taken with camera drones and four-dimensional Building Information Modeling (BIM) to quickly identify and visually communicate performance problems during construction projects via smartphones and tablets to project participants on and off the site.

"Golden 1 Center will utilize next-generation technology to connect fans and enhance the way they experience basketball games," says Kings President Chris Granger. "It's a natural fit for our partners to come together and use technology in revolutionary ways. This drone helped us meet our goals, manage production schedules and costs and provided a resource that connected our partners like never before."

"The powerful thing about this technology is that it calls attention to elements of construction in our schedule grouped by their location in 3D," says Lincoln Wood, regional manager for virtual design at Turner Construction. "This streamlines the management of our weekly work planning efforts by allowing us to visualize and mitigate potential risks to our schedule before they happen."



"Golden 1 Center will utilize next-generation technology to connect fans and enhance the way they experience basketball games"

Chris Granger, President, Sacramento Kings (NBA)

Mani Golparvar-Fard, assistant professor of Civil Engineering at University of Illinois and CEO of Reconstruct, says the analytics that his team conducts on these survey-grade 3D visual production models offer construction managers a "transparent view into what's happening on site each day, empowering them to improve reliability in short-term plans and eliminate problems before they happen."

The pilot project goal was to use the resulting color-coded 3D visual production models from University of Illinois' technology to easily and quickly inform project stakeholders about at-risk locations on a project site, allowing them to prioritize problems based on their construction plan, and take corrective actions to improve

the reliability of short-term project plans and develop more productive workflows for construction.

The Golden 1 Center project encompasses four city blocks right in the heart of downtown Sacramento that will be a major catalyst for development in the surrounding area and in the entire region. The arena itself is an indoor multi-use facility that will accommodate sporting and top entertainment events such as professional and collegiate sports, concerts, ice shows, indoor rodeo, trade shows, large graduations, family shows, and other indoor entertainment. It also contains a state of the art practice facility with administrative offices.

The project also includes up to 1.5 million sq-ft of additional development including 475,000 sq-ft of office space, 350,000 sq-ft of retail, a 250-room hotel, and up to 500,000 sq-ft for residential units. The first phase of the project includes over 715,000 sq-ft of development, over 300,000 sq-ft of retail, 128,000 sq-ft of office, a 250-room hotel and up to 50 residential units.

Golden 1 Center will be completed by October 2016, in time to open up the 2016-17 NBA season.

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