

Fall 2023

PARE TECHNICAL EXCELLENCE PANEL

The Rising Professionals Committee has recently formed the Pare Technical Excellence Panel to recognize the skills and efforts of Pare staff and foster interdepartmental collaboration. On a quarterly basis, Division Managers nominate Pare personnel based on their experience and technical expertise, their involvement in complex projects, and their successes navigating the challenges they faced during a project or in general as part of their role.

Three nominees are then randomly selected by the Rising Professionals Committee and asked to sit on the panel. Rising Professionals Committee members meet with each panelist in advance of hosting the panel in order to discuss why they were nominated, how the panel will operate, and develop questions that highlight their success and the skills they can provide to other divisions within Pare.

For our Fall 2023 Technical Excellence Panel, we welcomed the following Pare personnel:





Tyler Greco of Pare's Transportation Division

Tyler has been with Pare's Transportation Division for about 6 years now and was nominated for his role in an ongoing Bridge/Dam Replacement project in Wareham, Massachusetts. The project involves the complete replacement of an existing bridge and spillway with a new steel bridge and arch crested weir spillway, and the construction of a fish ladder and eel passage. The project is owned by MassDOT, but has and will continue to require significant interagency collaboration among local, state, and tribal interests. Tyler indicated that a significant challenge for him was converting all of the technical expertise needed to design this complex project into a format that could be easily understood by the general public. Tyler's solution to this challenge was to create a 3D render of the conceptual design that was shown during a public hearing, which presented a new challenge: Tyler had limited experience with this type of modeling! Thanks to research and online tutorials, Tyler was able to teach himself how to use 3D modeling software and created a very detailed 3D rendering that was a big hit at the public hearing! The model continues to help Tyler and the rest of the design team overcome obstacles with such a complex project. He now has the skills to assist other divisions with 3D modeling and is working with other tech-savvy Pare staff to develop a service package for 3D modeling.



Sue Gravel of Pare's Administration Division

Sue has been with Pare for over 30 years, initially starting in Marketing before moving to her current role in the Administration Division. Many people in the STEM industry take for granted that Administration is the company's backbone and how integral their role is to the functions performed by engineers and scientists. Sue discussed the multiple roles she plays and their impacts on our technical staff, the technical knowledge that administrative staff have on scientist and engineer roles, and the resources that technical staff and project managers can obtain from her and others in her division. Sue highlighted the skills and expertise she has developed throughout her years with Pare, and discussed some of the areas of expertise she plans to further refine.



Brendan Pickett of Pare's Civil Structural Division

Brendan has been with Pare's Civil Structural Division for a little over 5 years now, and was nominated for his role in the ongoing structural design of a proposed high school in Rhode Island. Due to soil conditions encountered during initial site feasibility evaluations, the design needs to incorporate a higher seismic design category than is typically seen in New England. Brendan discussed where the seismic design category is derived from and provided a high-level summary of the calculations needed to determine this seismic category. He provided some examples of how the seismic analysis will affect the building construction, such as the additional anchorage requirements for structural columns involved in the lateral load resisting system of the building, and explained that the ultimate goal of the design is to make the building more ductile to better withstand the loads and ground motions in a seismic event. Brendan indicated that the design has been a unique challenge because the majority of his experience is within New England, where this high of a seismic design category is rarely encountered, and that additional challenges he has experienced include ensuring that the plans maintained by the structural group and the architect remain consistent and compliant with these additional seismic regulations, which is certainly most effected through good communication and rapport with the architect and other involved parties.

Congratulations to Tyler, Sue, and Brendan on their excellent work!