

2018 DFI Committee Project Fund – Awards Announced

Congratulations to DFI's Technical Committees who were awarded funding for 2018 through the DFI Committee Project Fund (CPF). Twelve proposals were received for the 2018 round of funding, and the six projects were approved for a total of \$154,709.

The fund was established in 2011 to support DFI committee projects that advance the state of practice and understanding of deep foundations and produce a usable deliverable. Since its inception, the CPF has awarded more than \$830,000 in funding for committee initiatives. All project budgets include significant in-kind contributions from the researchers and associated groups, which are estimated to exceed \$1.6 million.

Deliverables from completed projects are available for download from the DFI website under the 'Publications' and 'Awards' tabs. Project scopes for projects in progress are also listed.

Jesús Gómez, Ph.D., P.E., D.GE, of GEI Consultants, is the chair of the Project Fund Review Committee, a multidisciplinary and geographically diverse group of 11 active DFI members. The review committee ranked and recommended proposals for award based on the following criteria, as appropriate to the scope of the project:

- Benefits to deep foundations industry (broad impact)
- Innovation
- Timeliness/relevance/immediacy of impact from results
- Quality of proposal (clarity, focus)
- Value of deliverable
- Probability of achieving goal

The Request for Proposal (RFP) for 2019 funding was posted on May 1 on the Committee Project Fund webpage at <http://dfi.org/awardslectures.asp?cpf>. Proposals are due December 1, 2018.

Please contact Mary Ellen Bruce Large, P.E., D.GE, DFI director of technical activities, at melarge@dfi.org for more information.

| Committee | Project Scope | Deliverable | Researcher(s) | Funding Award |
|---|---|---|---|---------------|
| Drilled Shaft | In-depth analysis on the correlation of parameters of soil resistance functions and statistical assessment of variability of p-y formulations | <ul style="list-style-type: none"> • DFI Journal article • DFI Annual Conference and SuperPile presentations • Webinar • Additional load test data input to www.findapile.com database | Prof. Kyle Rollins, P.E., Ph.D. Brigham Young University Prof. Anne Lemnitzer, P.E., Ph.D. University of California (Irvine) | \$ 29,000 |
| Seismic and Lateral Loads | Numerical analysis to develop design guidelines for p-y solutions combining lateral spreading and superstructure inertia | <ul style="list-style-type: none"> • Research report • DFI Journal article | Prof. Arash Khosravifar, Ph.D., P.E. Portland State University | \$ 29,999 |
| Soil Mixing | Data mining, field data collection and statistical analysis to derive empirical correlations for strength and permeability with soil confining stress | <ul style="list-style-type: none"> • Research report • DFI Journal article • DFI Magazine article • DFI 2020 Annual Conference presentation | George Onorato, P.E. Giovanni Bonita, Ph.D., P.E., P.G. GEI Consultants | \$ 28,500 |
| Augered Cast-in-Place Piles | Thermal integrity profiling on ACIP test piles to assess in-place diameter | <ul style="list-style-type: none"> • DFI Magazine article • DFI Journal article | Prof. Gray Mullins, Ph.D. University of South Florida | \$ 10,000 |
| Helical Piles and Tiebacks | Numerical study of performance of helical pile connections under cyclic load reversals | <ul style="list-style-type: none"> • Project report • DFI Journal article • Structural journal article • DFI Annual Conference presentation | Prof. Serhan Guner, Ph.D., P.E. The University of Toledo | \$ 27,210 |
| Ground Improvement, Seismic and Lateral Loads, and ACIP Piles | Numerical parametric study on seismic performance of rigid inclusions | <ul style="list-style-type: none"> • Final report • DFI Journal article | Prof. Armin Stuedlein, Ph.D., P.E. Oregon State University | \$ 30,000 |