

Biographies of Senior Concepts NREC Design Staff

Dr. David Japikse, Concepts NREC, CEO, Founder, and Owner

Dr. Japikse is the founder, owner, and Chairman of the Board of Concepts NREC, and is a key technical contributor for advanced projects. His area of expertise is the development of design tools and designs for pumps, compressors, turbochargers, turbopumps, gas turbines, and air compressors. Dr. Japikse has received recognition for his work, including the ASME Potter Gold Medal in Thermodynamics, the SAE 2008 Cliff Garrett Turbomachinery and Applications Engineering Award, and the ASME 2010 Henry R. Worthington Medal. He has also been honored with membership in the National Academy of Engineering and the Vermont Academy of Science and Engineering. Dr. Japikse is author/editor of ten books and has written/presented 300+ publications and reports on turbomachinery design and development. Dr. Japikse received a B.S. in Engineering at Case Institute of Technology and M.S. and Ph.D. degrees in Mechanical Engineering at Purdue University.

Dr. Ali Mahallati – Concepts NREC, Director of Aero/Hydro Design

Dr. Mahallati currently directs all aero and hydrodynamic design at Concepts NREC. Prior to coming to Concepts NREC in 2014, he was a Program Leader at the National Research Council of Canada, where he most recently ran programs to develop and advance critical technologies for more efficient gas turbine engines. Dr. Mahallati also has extensive experience in designing, analyzing, and testing a wide range of turbomachinery components. A significant part of his work at the Research Council was under contract to major gas turbine OEMs.

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