



National Institute for Aviation Research
Wichita State University

KEY R&D PERSONNEL

| Personnel | Expertise |
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| Aldag, Thomas Director of Research & Development (316) 978-5326 thomas.aldag@wichita.edu | New materials and fabrication methods, linking research and development to government and industry needs |
| Boldsai Khan, Enkhsai Khan (EK) Research Engineer, Advanced Joining Lab (316) 978-5205 eboldsai Khan@niar.wichita.edu | |
| Braden, Larry Manager, Full-Scale Structural Testing Lab (316) 978-8222 larry.braden@wichita.edu | Full-scale and component D&DT and static testing; instrumentation and systems |
| Brown, Brian Associate Director, CAD/CAM Lab (316) 978-3246 brian.brown@wichita.edu | CAD/CAM, CATIA course instruction and curriculum development |
| Brown, Jeremy Research Engineer, Advanced Joining Lab (316) 978-7272 jbrown@niar.wichita.edu | Friction stir welding/processing, friction stir spot welding and tool fixturing/design |
| Burford, Dwight A. (Ph.D.) Director, Advanced Joining Lab (316) 978-3204 dwight.burford@wichita.edu | Friction stir welding/processing, metallurgical engineering and failure analysis |
| Chan, Kah-Loon Manager, Research & Qualification, Mechanical Test Lab (316) 978-2233 kah-loon@niar.wichita.edu | |
| Chaparro, Alex (Ph.D.) Senior NIAR Fellow, Associate Professor, Psychology (316) 978-3038 alex.chaparro@wichita.edu | Color vision, motion perception, night vision and visual requirements of reading |
| Clarkson, Beth Research Engineer/Statistician, NCAMP (316) 978-3952 beth.clarkson@wichita.edu | Statistical analysis, computation of engineering basis values, statistical process control |
| Crockett Bonitati, Allison Manger, Composites Layup Room; Research Engineer, Composites Lab (316) 978-5461 allison.bonitati@wichita.edu | Project coordination, qualification of composite material systems |
| Davis, Wade Manager, Environmental Test Lab (316) 978-6718 wade.davis@wichita.edu | Environmental/EMC/EMI/RFI/TEMPEST technology, aircraft p-static and full-scale lightning testing, metrology calibration and repair, electronics technology |

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| Ehrstein, Shawn Director, CAD/CAM Lab (316) 978-5839 shawn@cadcamlab.org | PLM curriculum design and research |
| Gadberry, Chad Manager, Crash Dynamics Lab (316) 978-5239 chad.gadberry@wichita.edu | |
| Gomes, Chaminda Manager, Cyclic Testing, Mechanical Test Lab (316) 978-6575 chaminda@niar.wichita.edu | |
| Horn, Walter Julian (Ph.D.) Professor, Aerospace Engineering (316) 978-5919 Walter.horn@wichita.edu | Applied Mechanics, Advanced Composite Materials, Smart Materials, Aircraft Structural Analysis |
| Hickey, Timothy Director, Full-Scale Structural Testing Laboratory (316) 978-8204 thickey@niar.wichita.edu | Full-scale and Component DDT and Static Testing, Experimental Structural Modifications |
| Irani, Eddie Research Scientist, Walter H. Beech Wind Tunnel (316) 978-3569 eddie.irani@wichita.edu | Experimental aerodynamics |
| Johnson, Bill Manager, Visual Technology Lab (316) 978-6812 bill@cadcamlab.org | Curriculum development and classroom education in Maya 3-D computer animation and corporate and broadcast video production |
| Kostogorova-Beller, Yulia Research Scientist, Composites Lab (316) 978-5378 yulia@niar.wichita.edu | Lightning strike protection, electromagnetic shielding, nanomaterials |
| Laffen, John W. Director, Walter H. Beech Wind Tunnel and Crash Dynamics Lab (316) 978-5481 john.laffen@wichita.edu | Experimental aerodynamics |
| Laubach, Melinda M. Manager, Aging Aircraft Research Lab (316) 978-5209 melinda@niar.wichita.edu | Solid mechanics, damage tolerance and aircraft structures |
| Lee, Walter Director of Quality & Performance, Manager, Calibration & Quality Lab (316) 978-6139 walter.lee@wichita.edu | |
| Lovingfoss, Royal Research Engineer, Composites Lab (316) 978-5317 royal.lovingfoss@wichita.edu | Project management, composite material systems |
| Mah, Shin Manager, R&D Testing, Mechanical Test Lab (316) 978-5232 shin-liang.mah@wichita.edu | |
| Miller, L. Scott (Ph.D.) Professor & Chair, Aerospace Engineering (316) 978-6334 scott.miller@wichita.edu | Experimental aerodynamics, airfoil design, rotor aerodynamics |

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| <p>Minaie, Bob (Ph.D.) Associate Professor, Mechanical Engineering (316) 978-5613 bob.minaie@wichita.edu</p> | <p>Advanced polymer composites, nanocomposites, functionally-graded hybrid composites, metallic materials</p> |
| <p>Ng, Yeow Associate Director, National Center for Advanced Materials Performance (NCAMP) (316) 978-5212 yeow.ng@wichita.edu</p> | <p>Materials and processes, qualification and allowables of composite and other advanced material systems</p> |
| <p>Olivares, Gerardo (Ph.D.) Research Scientist, Crashworthiness (316) 978-7273 gerardo.olivares@wichita.edu</p> | <p>Structural crashworthiness, occupant injury biomechanics, automotive and aerospace safety systems development, mechanical systems design and analysis</p> |
| <p>Porter, Arthur C. Manager, Research Machine Shop (316) 978-3656 arthur.porter@wichita.edu</p> | <p>Design, fabrication and maintenance of the mechanical hardware used for research projects</p> |
| <p>Raju, K. Suresh Assistant Professor, Aerospace Engineering (316) 978-5939 raju@niar.wichita.edu</p> | <p>Solid mechanics, composites, damage tolerance</p> |
| <p>Robles, Errick Manager, ITAR & Export-Controlled Testing, Mechanical Test Lab (316) 978-6717 errick.robles@wichita.edu</p> | <p>Composites research and development testing and photogrammetry analysis using the ARAMIS full-field strain system</p> |
| <p>Salah, Lamia Program Manager, Mechanical Test Lab Senior Research Engineer, Composites Lab (316) 978-5775 lamia.salah@wichita.edu</p> | <p>Composites and fatigue and fracture research</p> |
| <p>Schultheis, Udo (Ph.D.) Research Scientist, Human Factors (316) 978-5776 udo.schultheis@wichita.edu</p> | <p>Aviation psychology, human factors and cognitive psychology, pilot selection and training, FAA ATP and JAA ATPL with Hawker 800 XP type rating</p> |
| <p>Seneviratne, Waruna Senior Research Engineer, Mechanical Test Laboratory (316) 978-5221 waruna@niar.wichita.edu</p> | <p>Structural and solid mechanics with emphasis on experimental work on durability and damage tolerance testing and analysis protocols for full-scale composite airframe structures.</p> |
| <p>Shiple, Nathan Assistant Director, CAD/CAM Lab (316) 978-7260 nathan@cadcamlab.org</p> | <p>CATIA structural stress analysis</p> |
| <p>Smith, Bert L. (Ph.D.) Professor, Aerospace Engineering (316) 978-5938 bert.smith@wichita.edu</p> | <p>Advanced composite materials, damage tolerance of metallic and composite aircraft structure; applied mechanics</p> |
| <p>Toledo, Fernando F. Manager, Virtual Reality Center (316) 978-8333 fernando.toledo@wichita.edu</p> | <p>Virtual reality, real-time visualization and simulation of CAD/CAID/CAE/CAM databases</p> |
| <p>Tomblin, John S. (Ph.D.) Executive Director; Director, Composites Lab; Director, Mechanical Test Lab (316) 978-5234 john.tomblin@wichita.edu</p> | <p>Material qualification, advanced material insertion, composites and advanced materials research</p> |

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| Widener, Christian (Ph.D.) Research Scientist, Advanced Joining Lab (316) 978-5205 christian.widener@wichita.edu | Friction stir welding/processing, heat-treatable aluminum alloys, corrosion, and materials characterization |
| Yang, Charles (Ph.D.) Associate Professor, Aerospace Engineering (316) 978-6312 charles.yang@wichita.edu | Mechanics of composite materials, finite element analysis |
| Yeoh, Jason Manager, ASTM Standard Testing, Mechanical Test Lab (316) 978-6864 jason.yeoh@wichita.edu | ASTM static and fatigue testing, qualification of composite material systems, project coordination |

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