Cleveland State University has received $173,876 from NIH and the University of Delaware to fund a multi-site project that focuses on advancing locomotion and development in young children with Down Syndrome. Madalynn Wendland, a second-year clinical assistant professor, and Andrina Sabet, clinician/research project manager, both in the School of Health Sciences at Cleveland State University, are collaborating with Primary Investigator J. Cole Galloway from the University of Delaware and Investigator Sam Logan from Oregon State University.

As a part of the Go Baby Go movement, which is the umbrella brand of the research/consulting/design group led by Dr. Galloway, the project to be conducted at Cleveland State University has been designed to promote early mobility in children with Down syndrome through use of low-cost, low-technology modified racecars to positively impact motor, cognitive, language and social-emotional development. Multi-disciplinary in nature, this project has the potential to facilitate inter-professional collaboration between physical, occupational, and speech therapy programs, as well as programs in the colleges of engineering, business and law to address mobility impairments across the lifespan.
Meet CSU's New Faculty

Dr. Chris Wirth joined CSU this past fall as an assistant professor in the Department of Chemical and Biomedical Engineering. Prior to joining CSU, Dr. Wirth worked as a postdoctoral scholar in the Soft Matter, Rheology and Technology Lab at KU Leuven, Belgium. Dr. Wirth's broad research interests lie in colloid and surface science, but he is specifically concerned with the measurement and control of weak forces between nanoparticles.

Although the term "colloid" may seem unfamiliar to most, the importance of this class of material cannot be overstated. Blood, milk, laundry detergent, cell membranes, drilling fluids, and paint are just a small selection of colloids.

A colloid is any material that contains a second, finely divided material, where "finely divided" means having one dimension that is between ~ 10 and 1,000 nanometers - this size regime is called the "Colloidal Domain." As a comparison, a human hair is about 50,000 nanometers thick. Colloidal particles often have a directionally dependent property (i.e., anisotropy). Carbon nanotubes, Janus particles, and polymer ellipsoids are all examples of anisotropic colloidal particles.

Initial work in Dr. Wirth's lab encompasses three main projects specifically focused on the behavior of anisotropic particles in foams, responding to an electric field, and proximate to a solid boundary. To support these projects, Dr. Wirth has built a laboratory that includes video microscopy coupled with a custom-built variable angle Total Internal Reflection Microscopy flow cell. In addition, the lab has a Malvern Zetasizer Nano ZS capable of characterizing size and surface charge of particles ranging from a few nanometers in size to micrometers. Dr. Wirth looks forward to building up the personnel in his group in the coming months - he plans to have two masters and four undergraduate students working in the lab over the summer, with two doctoral students joining the group in fall 2015.

FSI, FRD, and DRA Award Announcements

The Office of Research is pleased to announce the award decisions for the Faculty Scholarship Initiative (FSI), Faculty Research and Development (FRD), and Dissertation Research Award (DRA) internal funding programs. The Office of Research would like to thank the members of the University Research Council for their thoughtful, quality reviews for all 2015-2016 FSI, FRD, and DRA proposals, and to congratulate the recipients of these awards on their successful proposals.

Featured Researcher Video Series - Jacqueline Jenkins
Research by Jacqueline Jenkins is the focus of the latest installment of the Featured Researcher Video series. Professor Jenkins is an Associate Professor in the Department of Civil and Environmental Engineering at Cleveland State University.

Her research focuses on examining the characteristics of users as they relate to the design, operation and maintenance of transportation facilities and systems. We encourage you to learn about Professor Jenkins' work, and to take a look at our previous Featured Researcher Videos.

CSU Scholar News

Dr. Oya Tukel, chair and professor in the Department of Operations and Supply Chain Management, is an active researcher. Dr. Tukel's research activities have concentrated on developing efficient scheduling procedures when the project manager has limited resources.

She has published numerous articles over the past 20 years, presenting solution procedures for the resource constrained project scheduling problems, the integration of quality to the scheduling process, and identification of characteristics of projects and the project environment.

Dr. Tukel also studied the possible uses of project scheduling techniques in other planning procedures such as in Material Requirements Planning, and Customer Relationship Management. She has also contributed to inter-disciplinary studies to the project management field by analyzing how the performance of suppliers affects the performance of projects. Her current research interest involves applying Knowledge Management concepts and tools in a project environment. In a recent paper, Dr. Tukel developed a learn-forget model to quantitatively test how learning that takes place in a previous project impacts the performance of a succeeding project. In a follow up paper with her doctoral student, Brad Eichhorn, they analyzed the impact of the user's involvement in Information System Projects. Currently Dr. Tukel and Dr. Jen-Yi Chen are working on the development of efficient patient scheduling techniques for health care organizations.

Please share with us important news or updates on your research, scholarly, or creative activities. Updates may be related to a paper that has been accepted for publication in a high-
Roberta, you've just published an impact journal, a book you've just published, your work that will be exhibited at a prominent institution, or other updates you wish to share with our office. Send details to j.yard@csuohio.edu and c.mclennan@csuohio.edu.

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**News from the Technology Transfer Office**

**Mobile App Hosting Now Available.** The CSU Research Corporation has recently entered into app hosting developer agreements with Apple Developer and Google Play. The Technology Transfer Office (TTO) will work with faculty and students to facilitate free access to tools and resources for developing on iOS, OS X, and Safari, including pre-release documentation, videos, and sample code. For Android applications, the TTO will facilitate access to the Google Developers Console to allow for the management of projects that make use of Google Developer APIs and Google Cloud resources as well as being able to generate API credentials, activating APIs, and managing team and billing information associated with your project.

Having recently come on board, I encourage all faculty and staff to contact me, Jack Kraszewski, Director of CSU's Technology Transfer Office, if you have any questions about a technology or innovation in which you are involved. It is never too early to discuss protecting innovation. I can be reached at x-5108 or via email at j.kraszewski@csuohio.edu. Also, additional information can be found here. I look forward to meeting you and helping to move CSU innovation from Mind to Market!

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