

## **Brief Biography - Tsuchin “Philip” Chu**

Tsuchin “Philip” Chu is Professor in the Department of Mechanical Engineering and Energy Processes at Southern Illinois University Carbondale (SIUC). He was a faculty member of Polytechnic University in New York before he joined SIUC in 1990. Dr. Chu has been conducting research in areas such as non-destructive evaluation (NDE), biomedical engineering, experimental mechanics, computer-aided design, manufacturing, and engineering (CAD/CAM/CAE), finite element analysis (FEA), sensors and instrumentation. He is a pioneer in the area of digital image correlation (DIC) and at the cutting edge of research in NDE and biomechanics. He has more than 100 peer-reviewed journal publications and conference proceedings and over \$2 M in grants from NASA, Boeing, US Air Force, United Technologies, General Dynamics, IBM, Illinois Clean Coal Institute, etc. Dr. Chu advised more than 40 graduate students. He developed the Intelligent Measurement and Evaluation Lab (IMEL) which houses state-of-the-art equipment including DIC system, infrared (IR) thermography system, as well as immersion, contact, and air-coupled ultrasonic C-scan systems. Dr. Chu has participated in many summer research programs (NASA and the US Air Force) as a Research Fellow. He was an associate editor for the professional journal *Experimental Techniques*. He is currently serving on the ASNT (American Society of Nondestructive Testing) Board of Directors and is the ASNT St. Louis Section Vice President. He is also a member of NASA Engineering and Safety Center (NESC) NDE TDT team. Dr. Chu is a co-founder of *Clipius Technologies*; a think-tank company produces intellectual property in the areas of defense, aerospace and biomedical devices.