

# Alamo Inventors<sup>SM</sup>



## Introduction to Prototyping

**Gilbert Lopez, Isaac Rodriguez and Dr. Hung-da Wan**

Gilbert Lopez and Isaac Rodriguez from Texas Toolmakers in San Antonio, will be our speakers for the first session and will speak on several conventional prototyping techniques including CAD design, manual machining, CNC machining, sheet metal fabrication and welding. Together they have over 30 years of experience in machining and fabrication techniques. They deal daily with a wide range of product ideas and have helped develop many prototypes from concept to production from inventors just like us.

Dr. Hung-da Wan, Assistant Professor in Mechanical Engineering at UTSA, will be our speaker for the second session and will speak on rapid prototyping, also known as 3D printing. This new manufacturing technology can build almost any geometric shape within its size limitation. In this presentation, Dr. Hung-da Wan will talk about what 3D printing is, how it works, its main features and limitations. Various 3D Printing techniques will be reviewed, together with some student projects that were carried out at UTSA.

Dr. Hung-da Wan is Director of the Machine Shop in the College of Engineering at UTSA. He is a core faculty member of the Center for Advanced Manufacturing and Lean Systems (CAMLS) with a focus on manufacturing systems engineering and process improvement. His first encounter with Rapid Prototyping was his thesis research in 1994. Currently, he manages two different rapid prototyping machines at UTSA and is looking into further applications and development of the technology.

Also, please take this opportunity to pay your annual dues (\$25/\$95 Corporate), thanks!

## Wednesday, Feb. 8, 2012

**5:30-6:30 Networking 6:30-8:00 PM - Presentation**

**San Antonio Technology Center**

**3463 Magic Drive**

(North of I-410 Between Callaghan and Fredericksburg Roads)

**Public Invited**



**Special Thanks For:**

**Refreshments Provided by Marx Design**

Alamo Inventors, a Special Interest Group (SIG) of Technology Connexus Association, is a non-profit organization made up of local area engineers, business people, professionals, students, faculty and people from all walks of life. Anyone interested in inventing and/or business and product development is welcome to attend and become a member.

For more information visit:

**[www.alamoinventors.org](http://www.alamoinventors.org)**

