

Division IV

Engineering Student Design Competition REINSTATED

School Awards:

School Awards are granted to recognize the cooperation of student, instructor and department in preparing an award paper. These awards are sent to the department heads listed.

2006 Winners

Ohio State University
Chairman's Award - 1 entry
Best of Program - 1 entry
Silver Award - 1 entry
Bronze Award - 1 entry

Stanford University
Best of Program - 1 entry
Gold Award - 1 entry
Bronze Award - 1 entry

Oklahoma State University
Silver Award - 1 entry

dordt college
Bronze Award - 1 entry

University of Illinois - Urbana
Gold Award - 1 entry
Bronze Award - 1 entry

University of Washinton
Silver Award - 1 entry

GRADUATE COMPETITION

Best of Program



Ariel Dowling



Marlo
Dreissigacker



Young Kim



Joe Laubach



Salil Vaidya

FOR THE ENTRY: *Biomechanical Evaluation of a Spinal Disc Nucleus Prosthesis*
Stanford University, Professor Thomas Andriacchi

Gold Award



Melanie Fox



Chandra Jha



Grant Lee



JinHoon Park



Gabriel Sanchez

FOR THE ENTRY: *Adjustable Implant for Treating Glaucoma*
Stanford University, Professor Thomas Andriacchi

For Graduate and Undergraduate Students in Engineering or Technology

The Lincoln Foundation sponsors this competition annually to recognize and reward achievement by engineering and technology students in solving design, engineering or fabricating problems. Separate awards will be made to graduate and undergraduate students. Course reports may be submitted.



GRADUATE COMPETITION

Silver Award



Scott Gunter

FOR THE ENTRY: *The Dragon – A Spherical Mechanism Tracking Device for Minimally Invasive Surgical Training*
University of Washington, Professor Jacob Rosen

Bronze Award



Manish Chandra



Jessica DeMarre

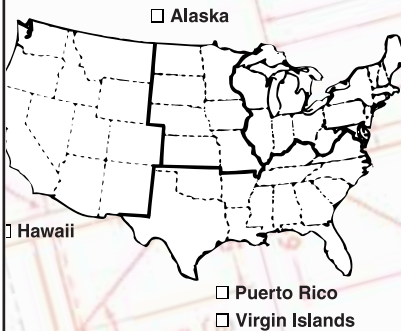


Anderson Nnewihe



Vishnu
Ramachandran

FOR THE ENTRY: *Simulation Tool to Investigate Effects of Knee Ligament Properties on Anterior-Posterior Displacement*
Stanford University, Professor Thomas Andriacchi



— UNDERGRADUATE COMPETITION —

CHAIRMAN'S AWARD



Paul Boulware



Matt Gordon



Craig Payne



Kurt Verhoff



FOR THE ENTRY: *Development of Weld Penetration to Joint Strength Relationship of Fillet Welds* The Ohio State University, Professor Chon Tsai

Gold Award



Michael Boomsma



Sean Corbett



James Lee

FOR THE ENTRY: *Butterfly Cage Control Valve Design, II* University of Illinois – Urbana-Champaign, Professor David Goldberg

Silver Award



John Andreadis



John Procaro



Brian Strumbly



Brian Weinkamer

FOR THE ENTRY: *Strip Cladding: A Method for Predicting Melting Rate Penetration, Cross Sectional Area, Deposited Area & Dilution* The Ohio State University, Professor Charles Albright



Joseph Biggerstaff



William Haar



Matthew Kilker



Taylor Miller

FOR THE ENTRY: *Design of a Manual Cattle Chute* Oklahoma State University, Dr. Paul Weckler



Division IV

Bronze Award



Brent Holloway



Matthew Sinfield



Giovanni Whitman

Steven Woods

FOR THE ENTRY: *Micro-Laser Edge Joint Welding of Nickle 200*
The Ohio State University, Professor Charles Albright



Dave Kielstra



Andrew Kroeze



Greg MacLeod



Jon Vander Vliet

FOR THE ENTRY: *Flat Stacker*
Dordt College, Dr. Matthew Dressler



Matthew Ludmer



Dominic Shafer

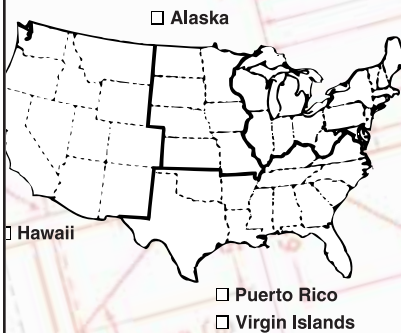


Jeremy Volk



Eric Wilson

FOR THE ENTRY: *Short Run Draw Tooling*
University of Illinois – Urbana-Champaign, Professor Harry Wildblood



Division IV Graduate and Undergraduate

2006 Merit Awards

Graduate Merit Awards

Anny Hsu
Heather Lake
Shiva Paramhans
Jin Tsubota
FOR THE ENTRY: *Osteoarthritic Cartilage Restoration: Design Criteria for Cartilage Restoration*
Stanford University, Thomas Andriacchi

Larry Fahnestock
FOR THE ENTRY: *Analytical & Large-Scale Experimental Studies of Earthquake - Resistant Buckling-Restrained Braced Frame Systems*
Lehigh University, Professor James Ricles

Michael Balsamo
David Jackson
So Hyeong Kim
Julien Marcil
Ambert Yeung
FOR THE ENTRY: *WI-MOD System*
Stanford University, Professor Larry Leifer/Mark Cutosky

Undergraduate Merit Awards

Mark Malhotra
Taylor Penn
Austin Rachlin
Michael Wittenberg
FOR THE ENTRY: *180-Degree Door Lift System*
Stanford University, Professor Drew Nelson

Jeremy Barton
Preston Clover
Jake Cornelius
Robert Meyer
FOR THE ENTRY: *Bridge School Assistive Technology Project*
Stanford University, Professor Drew Nelson

Isaac Hammons
Patrick Lester
Bradley Mazzella
Zach Tobias
FOR THE ENTRY: *Effect of Thermal Processing on the Weldability of Hastelloy X*
The Ohio State University, Dr John Lippold

Ben Finney
Bailey Gunadi
Chad Hartzel
Chih-Yuan Tai
FOR THE ENTRY: *Fiber Laser Micro Welding on Ni-200 Lap Joints*
The Ohio State University, Dr Dave Farson

Matthew Bloss
Jeremy Brooks
Matthew Pischel
Kerry Shook
FOR THE ENTRY: *Development of Ultrasonic Weldability Database*
The Ohio State University, Professor Charles Albright

Darius Collins
Steven Gardner
Jeff Hartig
Adam Rolfes
FOR THE ENTRY: *Effect of Electrode Dressing on Aluminum Resistance Spot Welding*
The Ohio State University, Professor Chon Tsai

Alex Haas
Chad Talsma
FOR THE ENTRY: *Designing a Cost Effective Brushless DC Motor Controller*
Dordt College, Dr Douglas DeBoer

Jim Barrett
Kevin Henrick
Diana Plata
Michael Rubin
FOR THE ENTRY: *Gaming Card Data Design and Layout Automation*
University of Illinois - Urbana-Champaign, Professor Scott Burns

Brian Bollinger
Andrew Hagen
Matthew Lombaerde
Alex Price
Donald Prolo
FOR THE ENTRY: *Solar Powered Vapor Absorption Chiller*
Santa Clara University, Jorge Gonzalez/Drazen Fabris

Chven Chou
Lora Oehlberg
Dana Ung
Corina Yen
FOR THE ENTRY: *Aerodynamic Active Front Skirt*
Stanford University, Drew Nelson

Brian Addison
David Carson
Robert Madera
Reza Mirza
FOR THE ENTRY: *Quick Change CNC Tube Bending Tooling Redesign*
University of Illinois - Urbana-Champaign, Professor Scott Burns

Erica Burt
Jessica Cole
Jason Drucker
Brian Wood
FOR THE ENTRY: *UV Lamp Redesign for Heat Reduction*
University of Illinois - Urbana-Champaign, Professor Louis Wozniak

Scott Fullman
Louis Holub
Barret Howell
FOR THE ENTRY: *Thermoforming Trim Press and Material Analysis*
University of Illinois - Urbana-Champaign, Professor James Carnahan

Paul Arendt
Jeffrey Krol
Ryan Spraez
Alan Truesdale
FOR THE ENTRY: *Pneumatic Motor Alternator System Design*
University of Illinois - Urbana-Champaign, Professor Thomas Conry

Bethany Jackson
Jennifer Kamber
Matthew Schluenz
FOR THE ENTRY: *Hard Water Spray Nozzle Design*
University of Illinois - Urbana-Champaign, Professor Scott Burns

James Ramirez
Anthony Savoia
Brandon Schmidt
FOR THE ENTRY: *Pneumatic Motor Concept Design*
University of Illinois - Urbana-Champaign, Professor Thomas Conry

Timothy Adkisson
Minoosh Moradi
Chuan Yan
FOR THE ENTRY: *High Pressure Liquid Chromatography Spring Column Redesign*
University of Illinois - Urbana-Champaign, Professor Louis Wozniak

Allison Jones
Benjamin Kaun
James Rickert
FOR THE ENTRY: *Infinitely Adjustable Exercise Bicycle Seat Design*
University of Illinois - Urbana-Champaign, Professor Ali Yassine

Jeffrey Cobia
Mustapha Kherbane
Christopher Marshall
FOR THE ENTRY: *Probe Waveguide Assembly Redesign*
University of Illinois - Urbana-Champaign, Professor Juraj Medanic

Jennife Bessette
Faye Hellman
Madison Major
Michelle Wetzler
FOR THE ENTRY: *Modular End Cap Display Design*
University of Illinois - Urbana-Champaign, Professor James Leake

Kevin Callaghan
Jessica Phillippe
John Riss
Jenna Rowell
FOR THE ENTRY: *Torsion Spring Extension Ladder Design*
University of Illinois - Urbana-Champaign, Professor Manssour Moeinzadeh

David Hoffer
Eric Liou
Brett Skaloud
Jennifer Wicks
FOR THE ENTRY: *Disposable Prophecy Angle Redesign*
University of Illinois - Urbana-Champaign, Professor Brian Lilly

Matthew Goetz
Thomas Mahar
Eric Mog
David Tilford
FOR THE ENTRY: *Window Pak Assembly Equipment Specification*
University of Illinois - Urbana-Champaign, Professor Henrique Reis

Michael Kivisto
Jennifer Mayberry
Katherine Meyer
Miquel Reyes
FOR THE ENTRY: *Injection Molding Setup Time Reduction*
University of Illinois - Urbana-Champaign, Professor Brian Lilly

Bernardo Figueiredo
Jennifer Kasler
Christian Tansey
FOR THE ENTRY: *Distribution Warehouse Methods Experts System*
University of Illinois - Urbana-Champaign, Professor Ali Abbas