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**MECHANICAL ENGINEERING
DESIGN EXPO • APRIL 26TH
UMC GLENN MILLER BALLROOM • 1:15-2:15PM**



Mechanical Engineering
UNIVERSITY OF COLORADO BOULDER

2013

SENIOR & GRADUATE
DESIGN STUDENTS
SHOWCASE THEIR
YEAR-LONG INDUSTRY
SPONSORED PROJECTS

SPRING 2013 PROJECT SPONSORS

Anschutz Medical Campus

Ball-Aerospace

Boeing

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Colorado Space Grant

Covidien

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General Electric Company

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Intel Corporation

Lockheed Martin

Los Alamos National Lab

Micro Motion, Inc.

MillerCoors, LLC

NREL

ONR, MURI, DOD

Oracle Corp.

Ricoh

Seagate Technology

Shell

Team Courage Classic

WOW

Shell Eco-Marathon

Pneumatic Cell Collector

Multiuse PEC Groundplane

Low-Shock Release Mechanisms

Atmospheric Observations Probe

CPD-CubeSat Propulsion Device

LigaSure Infinite Rotation

Surgical Locking Plate Design

**Portable, Manually Operated, Combined Wire Insulation Stripping
& Termination Crimping Tool**

Thermal Simulator Development for State of the Art CPU Thermal Control

Study of Atmospheric Corrosion Monitoring Techniques

Realization of Microscopic Grid/Pattern on IC Packaging Cross-Section

Orion Star Tracker Cover

Liter Fluid Injection System

First-Principles Liquid Density Characterization Device

Project to Improve Yeast Cell Lysis to Increase Yeast Drying Performance

Test Apparatus for Determination of Rolling Element Bearing Stiffness

Measuring Model Vehicle Dynamics Resulting from Soil Blast

Dynamically Controlled Tape Guide Tilt Mechanism

Laser Ink Drying System

Optimized Design of a MediaPC/Set-Top Box/Personal Video Recorder

Deadleg (Dead Ended Pipe) Temperature Predictions

Biomechanically correct bike pedal positioning for kids with cerebral palsy

Energy for Every Day-Water Cycle Exhibit

Vehicle Optimization for Shell Eco-Marathon Car

FOR MORE INFORMATION PLEASE VISIT DESIGNCENTER.COLORADO.EDU