Unmanned Flight Takes Off at DU!

Before Amazon can deliver packages by drone, serious technological advances need to address increased payload, shorter take offs, and longer flight times. The DU Unmanned Systems Research Institute continues to contribute to these engineering challenges. They developed a lightweight radar system that can be used for sense and avoid, provided significant technical advances into automated flight capabilities, and are currently tackling the issues of lift and drag with an unconventional circulation control wing. The UC²AV (Unmanned Circulation Control Aerial Vehicle) utilizes an active flow blowing technique called Circulation Control (using upper trailing edge blowing) to improve its aerodynamic performance and provide unique capabilities on the aircraft. What converts any conventional UAV to the proposed UC²AV is the novel and complete Circulation Control (CC) system, which consists of custom-built CC wings (CCWs), air supply unit (ASU), air delivery system (ADS) and two plenum designs that provide flow uniformity across the span of the wing. The CC system is built into the aircraft structure as a whole and it is part of the structure itself; although components may be built as a separate item, the whole system functions as one integrated aircraft. Using CC, the aircraft is endowed with improved aerodynamic efficiency (enhanced endurance), increased useful payload (fuel capacity, battery cells, on-board sensors), delayed stall, and reduced runway during take-off/landing.
University of Denver Fulbright Scholars
(Faculty scholars affiliated with DU at time of award as collected from the Fulbright directories)
http://www.cies.org/fulbright-scholars

2016 Mark Siemens
2015 Rebecca Aviel
2014 James Daniels
2013 Alison Krogel
2013 Susan Zvacek
2013 Christof Demont-Heinrich
2013 Anthony Hayter
2012 Cynthia McRae
2012 Aaron Schneider
2012 Billy Stratton
2011 Mark Levine
2011 Wendy Duong
2011 Anthony Hayter
2010 Thomas Barrett
2010 Katharine Hobart
2010 Cynthia McRae
2010 Jerome Wartgow
2009 Mark Levine
2008 Susan M. Sterrett
2007 Mary Ann Danowitz
2007 Mark Levine
2006 G. Miccio
2004 Ruth Parsons
2003 Thomas Russell
2001 Kathy Green
2001 Carol Johnson
2000 Daniel Smith
1999 Patrick Ireland
1997 Robert Brown
1997 Robert Mill
1996 Robert Sanford
1995 Susan M. Sterrett
1993 Karen Feste
1993 David Hopkins
1991 Margaret Ash
1991 Ronald Farina
1991 Peter Van Ness

1990 Robert Mill
1989 George Barany
1989 Melinda Wood
1988 Darl Bien
1986 Paul Dempsey
1986 Karen Feste
1986 George Barany
1985 James Barcus
1983 Joseph Szlylowicz
1980 Josiah Dodds
1979 Mitchell Roderic
1979 William Loehr
1979 Sarah McCarten
1978 Peter Vanness
1978 Richard Fabrikant
1976 Steve Carpenter
1973 Douglas Keister
1973 Wilbert Moore
1972 William Dorn
1971 Rod Horton
1971 George Patterson
1971 Thomas Pirkle
1970 Thomas Pirkle
1969 Laurence Ross
1965 Francis Myers
1965 Chadwick Haberstroh
1965 Harold Dunham
1963 Hirman Axford
1963 Russell Heitman
1963 Howard Brashers
1962 Howard Brasher
1959 Francis Myers
1958 Llyod Garrison
1957 John Greenway
1956 Donn Hart
1950 Whit Perkins
1949 Beatrice Holt

** Awarded to faculty at Colorado Women’s College prior to merger with DU

Research and Scholarship Matters is a quarterly newsletter produced on behalf of the faculty of the University by the Associate Provost for Research.

Faculty with notable accomplishments or images suitable to the front panel of the next issue are encouraged to send them to Corinne Lengsfeld, Associate Provost for Research. Not all submissions can be included, but every attempt will be made to be inclusive of all high quality research, scholarship and creative works.

For back issues access: www.du.edu/research-scholarship/

Want to receive emails regarding resources, celebrations, opportunities, and upcoming deadlines related to research and scholarship? Join the DU-Research list serve by clicking https://listserv.du.edu/mailman/listinfo/du-research and subscribing.
DU Professors Recognized for Excellence in their Field

Academic Academy Memberships
Membership in an Academic Academy or National Academy is one of the highest honors a professor can receive. Membership acknowledges and recognizes the excellent and varied contributions the professor made to their field. Listed are DU Professors who have earned such recognition over the years.

American Academy of Arts & Sciences
Theodore Puck 1967

American Academy of Social Work and Social Welfare
James Herbert Williams 2017
Jeff Jenson 2011

American Law Institute
Bruce Smith
KK DuVivier
Ved Nanda
Roberto Corrada
Martin Katz

National Academy of Science
CS Barrett
Theodore Puck

Awards and Honors
National Endowment for the Arts
Fellowships to Faculty
Eleni Sikelianos 2015
Brian Kiteley 1991

National Poetry Series
Eleni Sikelianos 2002

National Science Foundation Career Awards
Mark Siemens 2016
Kateri McRae 2016
Michelle Knowles 2015
Kingshuk Ghosh 2012
Siavash Pourkamali 2011
David Gao 2011
Maria Calbi (PECASE) 2010
Barry Zink 2009
Andrei Kutateladze 1999
Scott Leutenegger 1998

The Whitting Writers Award
Brian Kiteley 1996

Scholars & Fellows
American Council of Learned Societies Fellow
David Ciepley 2015
Burton Feldman 1975
William Gravely 1981
Josef Korbel 1973
Michael Pulman 1973

Cottrell Scholars
Honors outstanding scholars in the fields of chemistry, physics, and astronomy.
Dinah Loerke—Physics & Astronomy 2014
Kingshuk Ghosh—Physics & Astronomy 2012

Guggenheim Fellow
Honors exceptional capacity for productive scholarship or exceptional creative ability in the Arts
Susan Schulten 2010
Brian Kiteley 1992
Marshal Haith 1978
Josef Korbel 1956

Spencer Fellow—Post Doc
Honors significant scholarly contributions to the field of education
Nicole Russell 2014
Ryan Gildersleeve 2012

All awards listed are identified by the National Research Council as “Highly Prestigious.” If you know of highly prestigious award given to DU faculty but are not captured here, please email them to Corinne Lengsfeld, corinne.lengsfeld@du.edu
### National Endowment for the Humanities Grants

(Faculty directors affiliated with DU at time of award as obtained from the NEH website)

https://securegrants.neh.gov/

<table>
<thead>
<tr>
<th>Director</th>
<th>Area</th>
<th>Year Granted</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Susan Schulten</td>
<td>History</td>
<td>2017</td>
<td>A History of America through 100 Maps</td>
</tr>
<tr>
<td>Nadia Kaneva</td>
<td>Media Studies</td>
<td>2014</td>
<td>Media and the Making of Post-Communist Consumers in Eastern Europe</td>
</tr>
<tr>
<td>Elizabeth Karlgodt</td>
<td>History</td>
<td>2012</td>
<td>Museum Worthy: Nazi-Era Art in Postwar France</td>
</tr>
<tr>
<td>Adrienne Russell</td>
<td>Digital Humanities</td>
<td>2011</td>
<td>University of Denver Institute For Digital Humanities</td>
</tr>
<tr>
<td>Brooke Rohde</td>
<td>Preservation</td>
<td>2010</td>
<td>Preserving the Franktown &amp; Kenton Caves Organic Archaeological Collections Museum Of Anthropology</td>
</tr>
<tr>
<td>Brooke Rohde</td>
<td>Archaeology</td>
<td>2008</td>
<td>Assessing Perishable Archaeological Collections at the University's Museum of Anthropology</td>
</tr>
<tr>
<td>Ari Kelman</td>
<td>History</td>
<td>2004</td>
<td>A Misplaced Massacre: History, Memory and the Making of the West at Sand Creek</td>
</tr>
<tr>
<td>Ralph Difranco</td>
<td>Literature</td>
<td>2001</td>
<td>Creating a Database of Spanish Golden Age Verse</td>
</tr>
<tr>
<td>Ralph Difranco</td>
<td>Literature</td>
<td>1999</td>
<td>A Database of Spanish Golden Age Verse</td>
</tr>
<tr>
<td>Ralph Difranco</td>
<td>Literature</td>
<td>1997</td>
<td>A Database of Spanish Golden Age Verse</td>
</tr>
<tr>
<td>Victor Castellani</td>
<td>Classics</td>
<td>1992</td>
<td>Heros and Divinities In The Greek Vase Painting</td>
</tr>
<tr>
<td>Ralph Difranco</td>
<td>Literature</td>
<td>1991</td>
<td>The Early Poems Of Diego Hurtado De Mendoza</td>
</tr>
<tr>
<td>Ralph Difranco</td>
<td>Literature</td>
<td>1990</td>
<td>A Critical Edition of MS B-2486 of the Hispanic Society</td>
</tr>
<tr>
<td>Tamara Cohn Eskenazi</td>
<td>Religion</td>
<td>1988</td>
<td>Biblical Models of Community in The Postexile Era</td>
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<tr>
<td>William Gravely</td>
<td>African Amer Studies</td>
<td>1988</td>
<td>The Black Churches North of Slavery 1780-1870</td>
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<tr>
<td>Diana De Armas Wilson</td>
<td>Literature</td>
<td>1988</td>
<td>Cervantes’s Alegory of Love: The Labors of Persiles</td>
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<tr>
<td>William Gravely</td>
<td>African Amer Studies</td>
<td>1986</td>
<td>A New Design for Humanities in the Core Curriculum</td>
</tr>
<tr>
<td>Diana Wilson</td>
<td>Literature</td>
<td>1984</td>
<td>Cervantes and Borges: Writing and Rewriting Don Quixote</td>
</tr>
<tr>
<td>Mary Lanius</td>
<td>Arts</td>
<td>1983</td>
<td>Conference on the South Asian Art and Culture</td>
</tr>
<tr>
<td>George Shepherd</td>
<td>Political Science</td>
<td>1982</td>
<td>Human Rights Issues in the Third World</td>
</tr>
<tr>
<td>Max Wyczisk</td>
<td>Media Studies</td>
<td>1978</td>
<td>Humanities Planning Grant</td>
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<tr>
<td>Carl Raschke</td>
<td>Religion</td>
<td>1978</td>
<td>Religious Language as a Methodological Focus in the Study of Religion</td>
</tr>
<tr>
<td>Wayne Roth</td>
<td>Media Studies</td>
<td>1978</td>
<td>Humanities Planning Grant</td>
</tr>
<tr>
<td>Kate Kent</td>
<td>Preservation</td>
<td>1976</td>
<td>One Graduate Fellowship in Museum Personnel Training</td>
</tr>
<tr>
<td>Josef Korbel</td>
<td>Russian History</td>
<td>1976</td>
<td>A Trans-Siberian Anabasis the Czechoslovak Legionaries</td>
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<tr>
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<tr>
<td>Robert Roeder</td>
<td>General</td>
<td>1975</td>
<td>American Issues Forum Regional Program</td>
</tr>
<tr>
<td>William Gravely</td>
<td>Religion</td>
<td>1974</td>
<td>The Quest For Black American Nationality: From the Revolution to the Civil War</td>
</tr>
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<td>Lola Norris</td>
<td>General</td>
<td>1974</td>
<td>Regional Institute to Support the Bi-centennial American Issues Forum</td>
</tr>
<tr>
<td>Kate Kent</td>
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<td>Preservation</td>
<td>1972</td>
<td>Museum Fellowship Program</td>
</tr>
<tr>
<td>Robert Roeder</td>
<td>General</td>
<td>1971</td>
<td>Project to Upgrade the Humanities at the University</td>
</tr>
<tr>
<td>Henry Holland</td>
<td>Philosophy</td>
<td>1971</td>
<td>The Political and Social Thought of Judge Learned Hand</td>
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<tr>
<td>Arthur Gilbert</td>
<td>History</td>
<td>1971</td>
<td>Dialogues with Historians: An Examination of Attempts to Find Meaning in History</td>
</tr>
<tr>
<td>Robert Schultz</td>
<td>Philosophy</td>
<td>1971</td>
<td>Film Aesthetics</td>
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<tr>
<td>William Gravely</td>
<td>Religion</td>
<td>1970</td>
<td>Black Experience in America as Interpreted by Negro Churchmen</td>
</tr>
<tr>
<td>Robert Roeder</td>
<td>General</td>
<td>1969</td>
<td>Rocky Mountain Region Minorities Program</td>
</tr>
</tbody>
</table>
Integrated Analysis: 
The Art & Science of Forecasting

The challenges facing global policymakers are rarely isolated to single issue areas. Nor do they respect time, geographic boundaries or budgetary cycles. Given this reality, the way we think about policy choices should be as integrated and long-term as the very real-world challenges that we aim to address. Those who already recognize the value of thinking in this long-term, integrated way generally rely on intuition, and at best, qualitative reasoning or simple extrapolation to forecast the impact of their widely influential decisions. The International Futures (IFs) model - conceptualized and developed by the Pardee Center’s faculty, staff and student research assistants — is a one-of-a-kind, dynamic tool that helps bring more structure, data and academic rigor into that integrated forecasting process. On Thursday, January 19, Professor Jonathan Moyer, Director of the Pardee Center for International Futures, joined Dr. Mathew J. Burrows, Director of the Atlantic Council's Strategic Foresight Initiative, for a presentation to the World Economic Forum annual meeting in Davos-Klosters, Switzerland. To explore this year’s theme of “Responsive and Responsible Leadership,” the Atlantic Council and Zurich Insurance sponsored a Geopolitical Risks Breakfast, a discussion of the short- and long-term economic consequences of a protectionist world and an investigation of the interconnected imbalances in trade. For a number of years, Zurich Insurance has worked with the Atlantic Council and the Pardee Center to publish a set of qualitative and quantitative studies on the economic impact of global risks. In a new study to be launched in April, Atlantic Council’s Strategic Foresight Team and Pardee Center researchers have analyzed the implications of a number of protectionist challenges the world is suddenly facing. The Geopolitical Risks Breakfast in Davos included preliminary results of this study. Presenters used the IFs model, developed at DU’s Pardee Center, to help give global business leaders a comprehensive, conceptual framework for long-range thinking about shifts in geopolitics and trade.

FOR MORE INFORMATION
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Consumer Insights and Business Innovation Center

Colors, taste, public opinion, patterns...businesses are constantly trying to discern why consumers buy the red one more than the gray, or consume more food if they are in 100 calorie increments, or what makes everyone jump on the bandwagon. Deciphering consumer behavior and perceptions is crucial to marketing a successful product. Yet, businesses often fall short. Daniels College of Business faculty and staff, Ali Besharat, Melissa Archpru Akaka, Gia Nardini, Ana Babic-Rosario, and Karen Gross are working to develop a Consumer Insights and Business Innovation Center (CiBiC) focused on consumers’ perceptions and behaviors, and their impact on market offerings. The Center for Statistics and Visualization, in conjunction with University Libraries, offered to temporarily house the Center in Anderson Academic Commons two days per week and flip the space back to regular business use the other five days. This experiment in space utilization allows the participating faculty to refine experimental techniques and center specifications while a permanent location in DCB is completed, accelerates research productivity, and gives the Impact 2025 Implementation Cluster experience in transforming multi-functional space from business to research uses, a critical skill on a space strapped campus with a growing research impact. The launching of CiBiC is exciting, benefiting DCB undergraduate and graduate students, and faculty across the disciplines, encouraging researchers to work together to study important individual, social, and economic issues!

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Dr. Galena Rhoades, research associate professor in the Psychology Department, and Dr. Jennifer Hyer from Denver Health have teamed up to ensure pregnant women from the Denver area receive services crucial for preparing them and their families for a new baby. Pregnancy can be a time of heightened risk for romantic relationship problems, instability, and stress. It has also been deemed a “magic moment” when women are open to and motivated for change in their family life. Since pregnant women are already receiving pre-natal medical care through the Denver Health hospital system, this is an easy time to add on services that would otherwise be an extra trip to the clinic or doctor’s office. This project is currently funded through 2020 and will serve more than 1,000 women. It uses a three-pronged approach: a 6-week healthy relationship education program which focuses on building healthy relationships called Within My Reach, a comprehensive case management service that will give women access to other community services, such as mental health services offered within Denver Health’s prenatal care clinics, and workforce development training and counseling through a partnership with the Center for Work, Education, and Employment. In addition, all participants will learn about resources and help for domestic/family violence through DU’s domestic-violence prevention partner, SafeHouse Denver. Women enrolled in the proposed program have the opportunity to attend a separate, couple-based healthy relationship education workshop with their partner. The MotherWise project, funded by federal grants, will be evaluated through a controlled trial to determine the effectiveness of the program on maternal stress, the quality and stability of romantic relationships, co-parenting, and obstetrical outcomes.

MotherWise
A DU Partner Program

Events

Events that showcase DU faculty, staff, and student excellence in research and scholarship

March 1, 2017 Founders Forum
March 2, 2017 Founders Lecture Series
April 7, 2017 Graduate Research and Performance Summit
May 10, 2017 Undergraduate Research Symposium
May 11, 2017 IRISE Showcase
May 19, 2017 Pioneer Symposium

Deadlines

Deadlines for internal funding opportunities intended to support research and scholarship

March 1, 2017 IRISE Faculty and Student Research Proposals
March 1, 2017 Spring PinS Application
March 3, 2017 Public Good Fund
March 22, 2017 Undergraduate Summer Research Grant
March 31, 2017 Spring Faculty Research Fund (FRF) Grant