After over 40 years of teaching, researching, publishing and inventing, fred harris has now added a PhD to his list of accomplishments. fred pursued his doctoral course work from 1968-1973, but his interests and successes as a professor and researcher proved too distracting -- fred finished all coursework, but did not defend his dissertation. Knowing that it’s never too late, Professor harris established residency at the University of Aalborg in Denmark, wrote a dissertation based on his recent research activity, defended it on June 19th, 2008 and officially earned his Ph.D.

One of the most influential faculty members on campus, fred impacts the lives of students and colleagues each day while continuing to educate, learn, joke and travel the world. He shared with us that the degree was unfinished business and is glad that he finished the task.

Dean Hayhurst offered his congratulations to fred, stating that “this achievement is and outstanding complement to fred’s years of service at SDSU. fred has been a Monty award recipient (2003) and has authored an internationally recognized text on DSP entitled “Multirate Signal Processing for Communication Systems”.

Congratulations Dr. harris!

Fred Harris Receives PhD

Alumni Mixer Held

SDSU Engineering alumni from all corners of San Diego gathered on October 14th at Gordon Biersch Brewery in Mission Valley for a University Relations and Development supported event aimed at engaging alumni and getting them excited about all of the great things happening in the College.

The lively group of more than 60 guests, largely consisting of younger alumni, were...

Joe Kiani Distinguished Lecture

The Dean’s office, working with University Relations and Development, has initiated a series of bi-annual Distinguished Lectures.

The first will be held on November 13th when SDSU Engineering alum and Monty Award winner Joe Kiani will return to campus to give a lecture entitled “Bringing New Technology to Market”, which will highlight how Joe used his degree in Electrical Engineering to create a successful medical device...

Sintering 2008

Eugene Olevsky will serve as this year’s co-chair for the annual Sintering Conference, which will be held from November 16-20th at the Hilton Torrey Pines in La Jolla.

Dr. Olevsky will be joined at this conference by other SDSU Engineering Faculty, including Associate Dean Rand German, who, along with Gary Messing, began this conference series in 1995 at Penn State.
Tracking the Dean

11/5 - 11/7
Dean Hayhurst will be attending the CASE (Council for Advancement and Support of Education) Development for Dean’s Conference in Phoenix, AZ.

11/11
Dean Hayhurst will attend the CONNECT High Tech Venture Roundtable Screening Committee Networking Reception

11/12
Dean Hayhurst will attend the L. Robert Payne Distinguished Entrepreneur Lecture with Ron Fowler, CEO and Chairman of Liquid Investments, Inc.

11/13
Dean Hayhurst and the College will host the first College of Engineering Distinguished Lecture by Joe Kiani.

11/19
Dean Hayhurst will attend the CONNECT Board of Directors meeting

11/20
Dean Hayhurst will participate in an SDSU visit to UCSD to Investigate sustainability infrastructure programs

11/25
Dean Hayhurst will lead the Comprehensive Campaign Sustainability Initiative meeting and committee chair

Arizona Alumni Event Planned

Dean Hayhurst’s upcoming trip to Phoenix, Arizona for the ‘CASE Development for Dean’s Conference’ provides the perfect opportunity to engage the large demographic of SDSU Engineering alumni who reside in the Phoenix area.

A casual reception will be held at Garcia’s Mexican restaurant, giving the Phoenix area alumni a chance to meet and mingle with fellow alums and Dean Hayhurst as they learn about all of the great things that you are making happen in the College.

Prestigious Award Granted

“Air Force Link”, the official website of the U.S. Air Force, announced on October 21st the names of the grant recipients from their Young Investigator Research Program (YIP). Of the 210 proposals received, only 39 investigators will get a slice of the 12.1 million dollar pie.

One of these select few is the College of Engineering’s own Dr. Gustaaf Jacobs, for whom this award is career determining. Dr. Jacobs was very pleased to secure this funding in such a competitive environment.

His funding will allow him to do “basic research on advanced modeling of high-speed particle gas flows found in high-speed combustors and dust explosions”. He also adds that “the interaction between fuel droplets shocks and flow turbulence in high-speed combustors, between water mist and shock waves in mitigation of blasts, and between debris and the shock induced turbulent flow in explosions are critical issues to the mission of the U.S Air Force”.

His project will greatly benefit the Air Force, as he explains “the optimization of fuel droplet and fuel-air mixing improves performance of scramjets and pulse detonation engines, the propulsion systems of choice in Air Force air vehicles. Blast and mitigation thereof, has a significant impact on mission accomplishment and safety of Air Force personnel”.

Associate Dean Rand German commented on this great accomplishment stating that “over the last decade federal funding agencies have selected top young faculty in an intense competition of the best and the brightest. In its early years of existence, the highly competitive program honored awardees with a trip to the White House”.

Dr. German continues to say that “as only the second SDSU Engineering faculty member to receive this award, Dr. Jacobs is a great representation of the high quality young researchers and faculty that we are attracting to the college who represent the future of the programs”.

Congratulations Guus!

Research Corner—Projects Submitted & Awards Granted in October

<table>
<thead>
<tr>
<th>Name</th>
<th>Dept.</th>
<th>Title of Project</th>
<th>FA</th>
<th>Status</th>
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<tbody>
<tr>
<td>Dr. James Banks</td>
<td>CCEE</td>
<td>Integrating Transportation Simulation and Wildfire Spread Models to Improve Emergency Evacuation Decision Making</td>
<td>NSF</td>
<td>Submitted</td>
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<tr>
<td>(Co-pi Ming-Hsiang Tsou &amp; John Kim)</td>
<td></td>
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<tr>
<td>Dr. Luciano Demasi</td>
<td>AE/EM</td>
<td>An Infinite Number of Composite Plate Theories Based Upon an Invariant Model: The Generalized Unified Formulation</td>
<td>NSF</td>
<td>Submitted</td>
</tr>
<tr>
<td>Dr. Robert Dowell</td>
<td>CCEE</td>
<td>Simulation and Testing to Support Seismic Design of Anchorage</td>
<td>UCSD</td>
<td>Awarded</td>
</tr>
<tr>
<td>Dr. David T. Hayhurst</td>
<td>MEP/DNS</td>
<td>Computational Study of the Interaction Between Particle Clouds and Shocks with a Novel High-Order Particle-Source-In-Cell Algorithm</td>
<td>CSGF</td>
<td>Awarded</td>
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<tr>
<td>(Co-pi Theresa Garcia)</td>
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<tr>
<td>Dr. Gustaaf Jacobs</td>
<td>AE/EM</td>
<td>Design of Intelligent Cross-layer Routing Protocols for Airborne Wireless Networks</td>
<td>DOD/AFRL</td>
<td>Awarded</td>
</tr>
<tr>
<td>Dr. Sunil Kumar</td>
<td>ECE</td>
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</table>
Dr. Sridhar Seshagiri  ECE  Applications of the Nonlinear Output Regulation Problem  NSF/DCMS  Submitted

Dr. Satchi Venkataraman  AE/EM  Collaborative Proposal with Vanderbilt University to Air Force Research Laboratory for establishing a Collaborative Center in Multidisciplinary Sciences.  VU  Submitted

**CSGF** = California Space Grant Foundation  
**AFRL** = Air Force Research Laboratory  
**DCMS** = Division of Civil & Mechanical Systems  
**VU** = Vanderbilt University

**Story ideas, award notifications, suggestions and comments can be sent to Carly House at chouse@mail.sdsu.edu**
One benefit of using your newsletter as a promotional tool is that you can reuse content from other marketing materials, such as press releases, market studies, and reports.

While your main goal of distributing a newsletter might be to sell your product or service, the key to a successful newsletter is making it useful to your readers. A great way to add useful content to your newsletter is to develop and write your own articles, or include a calendar of upcoming events or a product.

You can also research articles or find “filler” articles by accessing the World Wide Web. You can write about a variety of topics but try to keep your articles short.

Much of the content you put in your newsletter can also be used for your Web site. Microsoft Publisher offers a simple way to convert your newsletter to a Web publication. So, when you’re finished writing your newsletter, convert it to a Web site and post it.
Inside Story Headline

This story can fit 100-150 words.

The subject matter that appears in newsletters is virtually endless. You can include stories that focus on current technologies or innovations in your field.

You may also want to note business or economic trends, or make predictions for your customers or clients.

If the newsletter is distributed internally, you might comment upon new procedures or improvements to the business. Sales figures or earnings will show how your business is growing.

Some newsletters include a column that is updated every issue, for instance, an advice column, a book review, a letter from the president, or an editorial. You can also profile new employees or top customers or vendors.

Inside Story Headline

This story can fit 75-125 words.

Selecting pictures or graphics is an important part of adding content to your newsletter.

Think about your article and ask yourself if the picture supports or enhances the message you’re trying to convey. Avoid selecting images that appear to be out of context.

Microsoft Publisher includes thousands of clip art images from which you can choose and import into your newsletter. There are also several tools you can use to draw shapes and symbols.

Once you have chosen an image, place it close to the article. Be sure to place the caption of the image near the image.

“To catch the reader’s attention, place an interesting sentence or quote from the story here.”

Caption describing picture or graphic.
One benefit of using your newsletter as a promotional tool is that you can reuse content from other marketing materials, such as press releases, market studies, and reports.

While your main goal of distributing a newsletter might be to sell your product or service, the key to a successful newsletter is making it useful to your readers.

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Caption describing picture or graphic.
This would be a good place to insert a short paragraph about your organization. It might include the purpose of the organization, its mission, founding date, and a brief history. You could also include a brief list of the types of products, services, or programs your organization offers, the geographic area covered (for example, western U.S. or European markets), and a profile of the types of customers or members served.

It would also be useful to include a contact name for readers who want more information about the organization.
products or services, you can include a listing of those here. You may want to refer your readers to any other forms of communication that you’ve created for your organization.

A question and answer session is a good way to quickly capture the attention of readers. You can either compile questions that you’ve received since the last edition or you can summarize some generic questions that are frequently asked about your organization.

A listing of names and titles of managers in your organization is a good way to give your newsletter a personal touch. If your organization is small, you may want to list the names of all employees.

If you have any prices of standard