

YOUR SOURCE FOR CURRENT EVENTS FROM
THE CHESTER F. CARLSON CENTER FOR IMAGING SCIENCE AT RIT

In this issue:

New CIS Faculty
Research @ RIT features
First RIT Intersession

Imaging Hall of Fame
Awards & Recognitions
Past & Future Alumni Events

Introducing New Faculty

Several new faculty have been welcomed as part of CIS. In the previous newsletter we introduced two of them, Dr. Gabe Diaz and Dr. Jie Qiao. In this issue, we'll introduce our latest addition, Dr. Chip Bachmann. The following write-up is by Susan Gawlowicz of RIT University News and can be accessed in its original context [here](#).

A leader in the field of environmental imaging research has recently joined the Rochester Institute of Technology Chester F. Carlson Center for Imaging Science.

Charles "Chip" Bachmann, the new Frederick and Anna B. Wiedman Professor in Imaging Science, comes to RIT with 23 years of experience as a civilian research scientist at the Naval Research Laboratory in Washington, D.C.

Bachmann specializes in coastal remote sensing and image processing. He most recently headed the Naval Research Laboratory's Coastal Science and Interpretation Section in the Coastal and Ocean Remote Sensing Branch. He has planned and executed campaigns to collect measurements of physical and optical properties in water and on land around the world.

He holds two patents, with a third pending, for software developed to synthesize aerial imagery and ground truth into physical models.

Bachmann's research program at RIT will focus on developing digital models across different coastal types. His research will account for various types of sands and sediment found along coastlines and the effects of inundation of water and the drying process, among other dynamic variables.

You can read more about Dr. Bachmann in this feature from the RIT Athenaeum publication: [New Leadership propels imaging science into next era](#)

Research @ RIT

Imaging Science was featured prominently in the [Fall/winter issue of Research at RIT](#), which had a spotlight on Visualization. The very first article is a detailed [History of Imaging Science](#), starting from our beginnings as a photographic technology program in 1930. Photographic Science and Instrumentation alumnus, RIT Trustee, and CIS Advisory Board member Jeffrey Harris is featured in the article, [Career Dedicated to Helping Maintain National Security](#). CIS's partnership with Exelis, Pictometry, and Lockheed Martin on the Consortium for 3D Innovation is detailed in the article, [Academia and Industry Collaborate to Automate 3D Imagery](#), while the technical details and challenges of our involvement in creating a 3D rendering of last year's RIT Big Shot is described in [Cowboys Stadium in 3D](#). The Multidisciplinary Vision Research Lab's work involving geological applications of eye tracking is detailed in [What Are You Looking At?](#) Lastly, research on segmentation of images and video being performed by Dr. Eli Saber, professor of electrical engineering in RIT's Kate Gleason College of Engineering and extended CIS faculty, and Dr. David Messenger, Director of CIS's Digital Imaging and Remote Sensing lab and CIS Associate Research Professor, is explored in the article [Image Detectives](#). We hope you enjoy the detailed look into some of the cutting edge research happening in CIS at RIT.

New: RIT "Tiger Term" Intersession

RIT's new semester calendar system includes a four week intersession, called Tiger Term, between fall and spring semesters and following winter break. Although CIS did not offer any official credit-bearing courses through the Registrar, we did experiment with our own set of free courses designed to increase one's knowledge in a number of imaging-related topics. Courses were open to all CIS undergraduate and graduate students, as well as faculty and staff. Classes were administered as morning and/or afternoon sessions, and while each day of the term was booked, we thankfully had no conflicts. Topics ranged from Fourier Optics, to MATLAB, to Eye Tracking and Virtual Reality, to New Product Development; a full list of offerings is kept at www.cis.rit.edu/intersession. In total, 85 people signed up for the new program, which we hope to offer again next year.

Imaging Hall of Fame

The 2013 Imaging Hall of Fame Induction Ceremony and Reception took place on December 11 to celebrate three new inductees: Dr. George Heilmeier, a pioneering contributor to the development of the liquid crystal display; Dr. Ren Ng, the founder and Executive Chairman of Lytro, the first company to produce and market a light field camera for consumer use; and August Toepler, a German physicist who was the first to succeed at visualizing acoustic waves in air. For the second time in the Hall of Fame's history, one of the current recipients, Ren Ng, was present for the ceremony and to accept a plaque identical to the one that now hangs in the Carlson Auditorium. Following the induction ceremony, keynote speaker Dr. Steven Koonin presented "The Promise of Urban Science", which can be viewed online [here](#). An after party at TC Riley's followed, detailed in the Alumni Events section below. Biographies of all past and present inductees are available on the [Imaging Hall of Fame website](#).

Awards and Recognitions

CIS Director Dr. Stefi Baum has been named to a leadership position in the American Association for the Advancement of Science. Dr. Baum began her term as chair-elect of the society's Section on Astronomy on Feb. 18. [Read More](#)

Imaging Science PhD student Saugata Sinha won the Best Student Paper award at the 2013 IEEE Western New York Image Processing Workshop, held at RIT on Nov. 22. The award was given based on reviewers' recommendations and the presentation of his paper, "Differentiation between malignant and normal human thyroid tissue using frequency analysis of multispectral photoacoustic images." [Read More](#)

Events

FluxData, a Rochester company founded by RIT alumni Pano Spiliotis ('99 BS Imaging Science, '01 MBA), Tracie Spiliotis ('99 BS Accounting, '01 MBA), and Lawrence Taplin ('01 MS Color Science) recently received a lot of press for graduating from RIT's Venture Creations incubator. FluxData manufactures multispectral cameras for aerospace, defense, industry, medical, and consumer markets. You can hear more about their expansion via [RIT University News](#), the [Democrat & Chronicle newspaper](#), and [WROC Rochester Channel 8 News](#).

Events

FluxData partners Pano Spiliotis, Tracie Spiliotis and Lawrence Taplin with Venture Creations director Bill Jones.

FluxData partners Pano Spiliotis, Tracie Spiliotis and Lawrence Taplin with Venture Creations director Bill Jones.

FluxData partners Pano Spiliotis, Tracie Spiliotis and Lawrence Taplin with Venture Creations director Bill Jones.

FluxData partners Pano Spiliotis, Tracie Spiliotis and Lawrence Taplin with Venture Creations director Bill Jones.

FluxData partners Pano Spiliotis, Tracie Spiliotis and Lawrence Taplin with Venture Creations director Bill Jones.

FluxData partners Pano Spiliotis, Tracie Spiliotis and Lawrence Taplin with Venture Creations director Bill Jones.

FluxData partners Pano Spiliotis, Tracie Spiliotis and Lawrence Taplin with Venture Creations director Bill Jones.

FluxData partners Pano Spiliotis, Tracie Spiliotis and Lawrence Taplin with Venture Creations director Bill Jones.

FluxData partners Pano Spiliotis, Tracie Spiliotis and Lawrence Taplin with Venture Creations director Bill Jones.

FluxData partners Pano Spiliotis, Tracie Spiliotis and Lawrence Taplin with Venture Creations director Bill Jones.

FluxData partners Pano Spiliotis, Tracie Spiliotis and Lawrence Taplin with Venture Creations director Bill Jones.

FluxData partners Pano Spiliotis, Tracie Spiliotis and Lawrence Taplin with Venture Creations director Bill Jones.

FluxData partners Pano Spiliotis, Tracie Spiliotis and Lawrence Taplin with Venture Creations director Bill Jones.

FluxData partners Pano Spiliotis, Tracie Spiliotis and Lawrence Taplin with Venture Creations director Bill Jones.

FluxData partners Pano Spiliotis, Tracie Spiliotis and Lawrence Taplin with Venture Creations director Bill Jones.

FluxData partners Pano Spiliotis, Tracie Spiliotis and Lawrence Taplin with Venture Creations director Bill Jones.

FluxData partners Pano Spiliotis, Tracie Spiliotis and Lawrence Taplin with Venture Creations director Bill Jones.

FluxData partners Pano Spiliotis, Tracie Spiliotis and Lawrence Taplin with Venture Creations director Bill Jones.

FluxData partners Pano Spiliotis, Tracie Spiliotis and Lawrence Taplin with Venture Creations director Bill Jones.

FluxData partners Pano Spiliotis, Tracie Spiliotis and Lawrence Taplin with Venture Creations director Bill Jones.

FluxData partners Pano Spiliotis, Tracie Spiliotis and Lawrence Taplin with Venture Creations director Bill Jones.

FluxData partners Pano Spiliotis, Tracie Spiliotis and Lawrence Taplin with Venture Creations director Bill Jones.



Dr. Charles "Chip" Bachmann

WINTER CIS NEWS HIGHLIGHTS

[What It Looks Like When One Satellite Sees Another](#) CIS Research Faculty Dr. Michael Gartley featured

[RIT digital humanities series brings Lazarus Project director to campus Feb. 20](#) CIS Professor Dr. Roger Easton Jr. Featured

[IEEE Geoscience and Remote Sensing Magazine \(GRSM\) Guest Feature: Remote Sensing Research and Education at Rochester Institute of Technology](#) DIRS featured

[Former Undersecretary of Energy Steve Koonin speaks at Imaging Hall of Fame](#)

[RIT hosts Capitol Hill briefing to focus attention on critical importance of remote sensing to national security](#) CIS Professor and Director of DIRS Dr. David Messenger featured

[RIT hosts Western New York Image Processing Workshop Nov. 22](#) Numerous CIS students and faculty featured

These are just a sampling of over 30 news stories since our last newsletter!

[ALL CIS NEWS HEADLINES](#)

These are just a sampling of over 30 news stories since our last newsletter!

[ALL CIS NEWS HEADLINES](#)

These are just a sampling of over 30 news stories since our last newsletter!

[ALL CIS NEWS HEADLINES](#)

These are just a sampling of over 30 news stories since our last newsletter!

[ALL CIS NEWS HEADLINES](#)

These are just a sampling of over 30 news stories since our last newsletter!

[ALL CIS NEWS HEADLINES](#)

These are just a sampling of over 30 news stories since our last newsletter!

[ALL CIS NEWS HEADLINES](#)

These are just a sampling of over 30 news stories since our last newsletter!

[ALL CIS NEWS HEADLINES](#)

These are just a sampling of over 30 news stories since our last newsletter!

[ALL CIS NEWS HEADLINES](#)

These are just a sampling of over 30 news stories since our last newsletter!

[ALL CIS NEWS HEADLINES](#)

These are just a sampling of over 30 news stories since our last newsletter!

[ALL CIS NEWS HEADLINES](#)

These are just a sampling of over 30 news stories since our last newsletter!

[ALL CIS NEWS HEADLINES](#)

These are just a sampling of over 30 news stories since our last newsletter!

[ALL CIS NEWS HEADLINES](#)

These are just a sampling of over 30 news stories since our last newsletter!

[ALL CIS NEWS HEADLINES](#)

These are just a sampling of over 30 news stories since our last newsletter!

[ALL CIS NEWS HEADLINES](#)

These are just a sampling of over 30 news stories since our last newsletter!

[ALL CIS NEWS HEADLINES](#)

These are just a sampling of over 30 news stories since our last newsletter!

[ALL CIS NEWS HEADLINES](#)

These are just a sampling of over 30 news stories since our last newsletter!

[ALL CIS NEWS HEADLINES](#)

These are just a sampling of over 30 news stories since our last newsletter!

[ALL CIS NEWS HEADLINES](#)

These are just a sampling of over 30 news stories since our last newsletter!

[ALL CIS NEWS HEADLINES](#)

These are just a sampling of over 30 news stories since our last newsletter!

[ALL CIS NEWS HEADLINES](#)

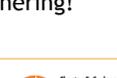
These are just a sampling of over 30 news stories since our last newsletter!

[ALL CIS NEWS HEADLINES](#)

These are just a sampling of over 30 news stories since our last newsletter!

[ALL CIS NEWS HEADLINES](#)

Quick Links:



[Support CIS](#)

[Job Listings](#)

[Previous Issues](#)