

PRINT + PACK

News

MIMAKI & SONOCO INSTITUTE PARTNER TO BRING FULL-COLOR 3D PRINTING TO CLEMSON STUDENTS

Mimaki USA has placed a full-color commercial 3D printer at Clemson University's Sonoco Institute for Packaging Design and Graphics for students to learn about the 3D printing workflow and create detailed product and package samples.

The printer produces photorealistic prototypes using inkjet technology and water-soluble support materials for quick and simple model-finishing. It can achieve more than 10 million colors using CMYK, white and clear inks.

"The Sonoco Institute is a leader in package design and graphics and Mimaki is proud to partner with them to provide hands-on experience with our full-color 3D technology," said Josh Hope, senior manager, 3D printing and engineering projects at Mimaki USA. "Our 3DUJ-553 printer will allow students to create color-accurate prototypes that complement their current curriculum as well as give them the opportunity to develop industry skills they can use outside the classroom."

"We are all very excited at Clemson to continue our partnership with Mimaki, especially in such a rapidly evolving area as 3D printing," said Chip Tonkin, Sonoco Institute director and chair of the graphic communications department. "We have a great group of faculty with wide-ranging expertise in printing and packaging who are ready to make use of the new equipment."

The Mimaki 3DUJ-553 was placed at Clemson University for educational and research initiatives and resides in the Sonoco Institute's Packaging Supply Chain Computer Lab, which houses the full scope of package design and prepress software. Initially, the new printer will be utilized in two courses at the institute: 3D Printing Workflow (GC 4900) taught by Shu Chang and Product/Package Design and Prototyping (PKSC 2200) taught by Haley Appleby.

[Click here to read more.](#)



Chang's first 3D Printing Workflow class at the institute

STUDENT AWARDS, CO-LED SESSIONS, VR FOR PRINT & MORE AT FTA FORUM & INFOFLEX '19

The Flexographic Technical Association's annual FORUM conference and INFOFLEX trade show took place on May 5-8 in New Orleans, LA. At the opening ceremony and awards banquet on May 5, several Clemson Graphic Communications students were awarded scholarships for the coming year.

[Click here for the full recap.](#)

CLEMSON STUDENTS WIN 48 HR REPACK COMPETITION

In the spring, three Clemson Packaging Science students - Theresa Ciccarelli, Ryan Nielson and Tyler Gunter - competed in the 2019 Association of Packaging Professionals' Southeastern 48 HR Repack and won first place at the NextPack event in Atlanta, GA on May 21!



Clemson GC Rossini Award Winners

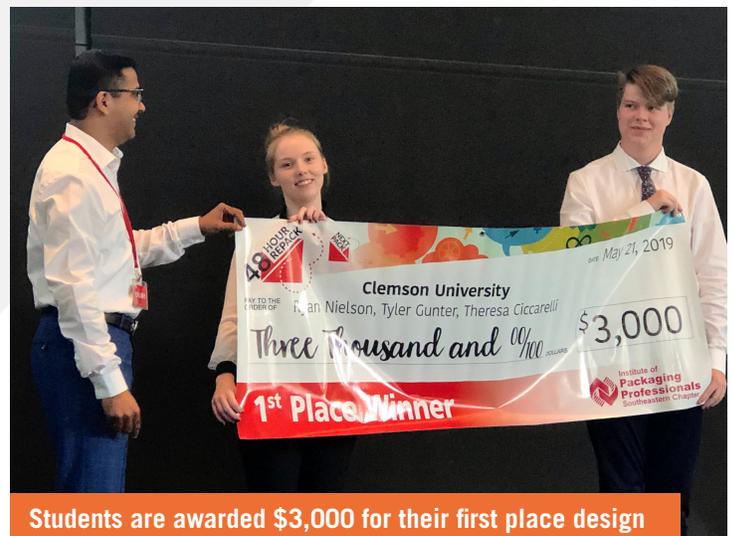
For this competition, student teams from universities across the southeast are given real-world design challenges from which they can choose a product and take 48 hours to conceptualize, design, print, prototype and film a short video explaining the packaging solution.

This year, Clemson students chose the Coca-Cola challenge and designed a unique "Break and Take" fridge pack. Utilizing the software and equipment placed at the Sonoco Institute on Clemson University campus, they had access to all of the necessary tools to create their unique package design.

[Click here to watch the students' submission video and learn more about their design.](#)



Clemson University wins first place in the 48 HR Repack



Students are awarded \$3,000 for their first place design

NEW PROJECT: VR FOR PRINT *SPONSOR VIRTUAL PRESS EDUCATION!*

Print needs your help!

According to the Bureau of Labor Statistics, the printing industry has seen a **25% decrease** in employment over the past 10 years. It comes as no surprise that as seasoned employees are reaching retirement age, quality talent is needed to replenish the workforce.

Clemson University's Graphic Communications program is dedicated to hands-on learning in printing science and press technology to help rising student talent understand the equipment, theories and problem-solving skills needed to be successful in this industry.

But getting students into these programs is a task in and of itself.

What if we captured the attention of potential students before they even tour a campus? That's where virtual reality comes into play.

The Sonoco Institute of Packaging Design and Graphics at Clemson University is developing a virtual print platform for workforce education and training.

Imagine the impact of immersing high school and technical college students in a virtual print world where they can learn, hands-on, about the ins and outs of printing in a safe and portable environment. The platform can be brought directly to them in the classroom. VR provides a unique opportunity for industry promotion and in-the-field training.

The opportunities are “virtually” limitless!

Workforce development is only one application for the virtual print platform. Press training is more safe and cost-effective in the virtual world. Immerse trainees in an interactive pressroom where they can remove the sides of the press, take a close look at its inner-workings, push buttons, pull levers and operate it without any real-world repercussions, like safety risk and financial loss.

[CLICK HERE TO WATCH A DEMO OF PHASE ONE.](#)

The Sonoco Institute is seeking partners for this initiative, which is a great opportunity to shine light on your company's commitment to workforce development. **Contact Bobby Congdon, Assistant Director at rcongdo@clemson.edu or 864-650-2762 for more information.**



NPIRI SUMMER INK TECHNOLOGY COURSE

One of the joint efforts presented by ink companies and the National Association of Printing Ink Manufacturers (NAPIM) is the summer Printing Ink Technology Course. Clemson University's Sonoco Institute will provide a state-of-the-art venue featuring excellent instructional resources in flexo, litho, gravure and digital printing, as well as electronic ink development capabilities.

This is the only detailed ink course available that covers:

- Uses of raw materials
- Formulation, testing and application of printing inks linked to raw material characteristics
- First-hand exposure to printing presses



2018 Summer Ink Class Attendees at the Sonoco Institute

Expert instructors in printing ink will join this summer from Allnex, BASF, Cabot Corporation, Clemson University, IGT Testing Systems, INX, Joules Angstrom U.V. Printing Inks, Kershaw Instrumentation, Kustom Group, NAPIM, Printers' Service, Sun Chemical, Verso Paper and others.

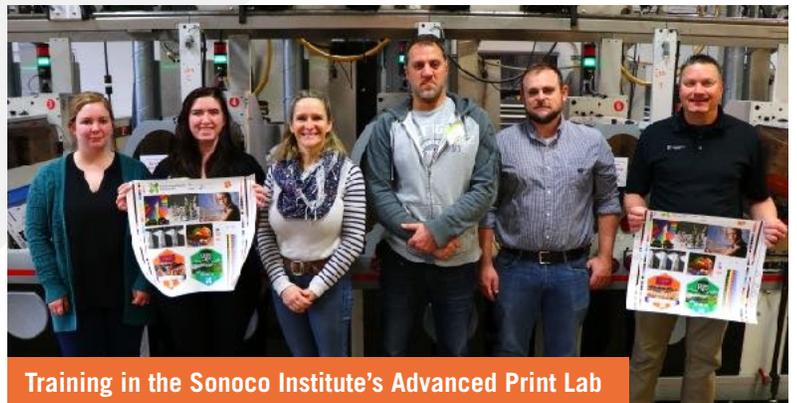
[Click here to learn more and register.](#)

ADVANCED TECHNIQUES IN FLEXO WORKSHOP

One of the Sonoco Institute's most popular advanced courses, the Advanced Techniques in Flexography Workshop on **August 6-9**, is geared towards individuals wishing to expand their present knowledge of the flexo process. Emphasis is placed on optimizing the printing of tone work and process color reproductions. The class "fingerprints" our press, measures process variance, creates production standards and then completes a four-color process job. During each step, formal instruction couples with hands-on learning in areas like tonal value management, color proofing, color theory, print analysis, process control, anilox selection and more.

[Click here to learn more and register.](#)

**Limited to 9 participants!
Only a few seats left.
Register 3+ for \$100 off**



Training in the Sonoco Institute's Advanced Print Lab

INDUSTRY TRAINING SCHEDULE

Click the dates below for each event or visit SonocoInstitute.com/Events for the full calendar!

INTRODUCTORY COURSES

FLEXO FOUNDATIONS SEMINAR
[August 13-14, 2019](#)

PAPERBOARD PACKAGING SEMINAR
[September 11-12, 2019](#)

CORRUGATED PACKAGING SEMINAR
[October 16-17, 2019](#)

INTERMEDIATE COURSES

INTRO TO FLEXO WORKSHOP
[October 8-11, 2019](#)

ADVANCED / SPECIALTY COURSES

ADVANCED FLEXO TECHNIQUES WORKSHOP
[August 6-9, 2019](#)

PROCESS CONTROL FOR FLEXO SEMINAR
[November 6-8, 2019](#)

PROCESS COLOR MANAGEMENT SEMINAR
[November 19-21, 2019](#)

PARTNER EVENTS

NPIRI PRINTING INK TECHNOLOGY COURSE
[July 14-19, 2019](#)



SGIA Color Management Boot Camp, May 21-23



The SGIA color course was co-led by CMG & GMG

SONOCO INSTITUTE | CONNECT WITH US!



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