



September 2022 Newsletter

In-Person Meeting

October 8th, 5:30 pm, Vintage Tavern, Gillette, NJ

Dr. Wangyang Ni, Stryker Corp.

“Manufacturing Devices to Help Make Healthcare Better”

39th Annual Golf Outing Last Call

Sponsor of the Month

Boeing Corp.



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<http://njsampe.org>

Our Speaker

Dr. Wangyang Ni has worked at Stryker for twelve years and currently serves as Principal Engineer. His focus is on additive manufacturing of medical devices, including R&D, applications, scale-up, standards, and regulatory compliance. Previously, Dr. Ni worked as Senior R&D Engineer at Kennametal Inc. on the development of advanced PVD hard coatings and cutting tools for subtractive manufacturing. He earned his Ph.D. in Materials Science & Engineering from Michigan State University and completed internships at General Motors Technology Center. Dr. Ni has been awarded eleven patents.

Manufacturing Devices to Help Make Healthcare Better

Focusing on innovation, design freedom, and improving healthcare, Stryker's Tritanium[®] technology has been used in several FDA-cleared orthopedic implants. This presentation highlights how AMagine[®], Stryker's proprietary approach to implant creation using additive manufacturing, has made revolutionary design freedom possible.

Meeting Details

- Date:** October 6th, 2022
- Location:** Vintage Tavern, 342 Valley Road Gillette, NJ 07933
<https://www.vintagetavern.com>
- RSVP:** E-mail Megan Casey at mbc872@gmail.com
Please RSVP by October 1, 2022
- Agenda:** *Networking Social - 5:30 pm*
Dinner - 6:00 pm
Presentation - 7:00pm
- Fee:** General admission: \$30
Corporate Sponsors: First attendee is free, then \$30 for all others
Students: Always free
Prepay via PayPal to Megan Casey or cash/check at door



Monthly Meeting Preview

Mark your calendar! Looking forward to seeing you!

We are pleased to present our Fall 2022 Additive Manufacturing Series

September 8th – Yuebin Guo - Rutgers University

Rutgers University (with tour of Rutgers AM laboratory)

October 6th - Wangyang Ni – Stryker Corporation

Vintage Tavern, Gillette, NJ

November 3rd – William Wolf – Sartomer Corporation

Location TBD

December 1st – Jaclyn McLaughlin – Rowan University

Location TBD

Contact Howard Kliger hskliger@comcast.net for speaker or sponsorship opportunities. All are welcome!

39th Annual Golf Outing

LAST CALL!



September 29, 2022, Picatinny Arsenal Golf Club, Picatinny, NJ Everyone is welcome!

Package includes:

- Greens fee & golf cart
- NJ SAMPE gifts
- Short game practice facility
- Access to locker rooms, showers
- Cash bar at 19th hole
- The famous NJ SAMPE banquet dinner
- \$150 each or \$550 for a complete foursome. NJ SAMPE Corporate Sponsors will receive a \$30 discount for their first golfer. Dinner only: \$35 each

Tee time 11:30 am EST (Shot Gun)

The picturesque Picatinny Golf Club is located on Picatinny Arsenal in Northern New Jersey. Established in 1921, the golf club offers an 18-hole championship course, multiple sets of tees, a top notch short game facility, a fully stocked pro shop and the Sam Adams Pub for your 19th hole comfort.

RESERVATIONS WITH PAYMENT MUST BE RECEIVED BY SEPTEMBER 21, 2022

Contact Megan Casey at 610-427-3534 or mbc872@gmail.com to sign up

Walk-ups are subject to availability and an additional \$20 fee

DIRECTIONS: <https://www.pga.com/golf-courses/details/nj/picatinny-arsenal/picatinny-arsenal-golf-course/map>

September 2022 News

With our 39th Annual Golf Outing nearly upon us, we wanted to review the latest advances in golf technology using composite materials.

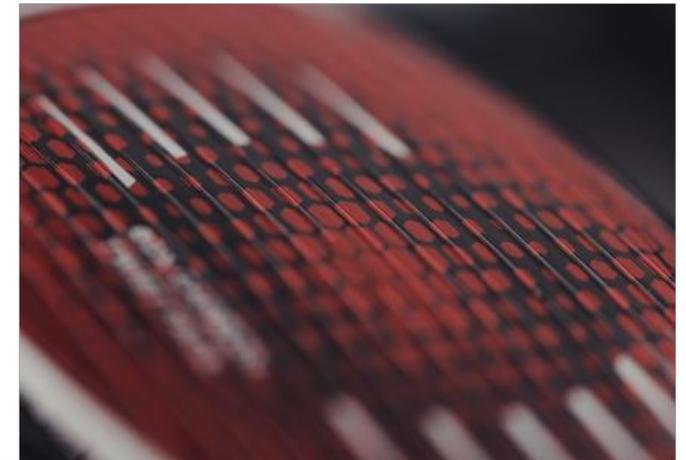
While Callaway Golf lays claim to the first golf club with a composite face, introduced in 2002, TaylorMade Golf Company just launched a family of drivers under the #Stealth brand. The carbon fiber-reinforced epoxy face, together with a nano-textured polyurethane topcoat, reduces weight and improves energy transfer to the golf ball. This pretty much ticks the final box for composite technology in modern golf.

According to Tony Starks of TaylorMade:

“The evolution of driver materials has reached a new plateau with TaylorMade’s family of Stealth Carbonwood[™] drivers. The journey to this point began more than 20 years ago, as engineers pushed the limits of materials starting with steel and moving into titanium. In this era, we’ve reached the pinnacle of performance with titanium faced drivers – effectively maxing out results in terms of distance, ball speed and forgiveness.

Carbon allows engineers to unlock a new frontier of driver performance, and it starts with the 60X Carbon Twist Face. Overall, it is 40% lighter than an equivalent titanium face...Sixty layers of carbon fiber are systematically arranged to optimize energy transfer to deliver fast ball speeds over a large area for distance and forgiveness.”

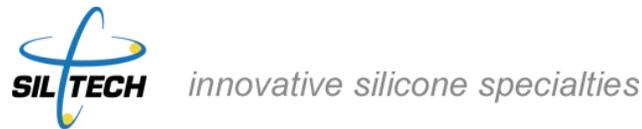
Your scratch game may not improve, but it'll be fun to watch the pros leverage this equipment to its full potential.



Article and image credit:
https://www.taylormadegolf.com/clubhouse/245026-first-look-a-deep-dive-into-the-technology-that-powers-stealth-drivers.html?lang=en_US

Thank You to Our Sponsors!

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Sponsor of the Month – Boeing Corp.



As a leading global aerospace company, Boeing develops, manufactures and services commercial airplanes, defense products and space systems for customers in more than 150 countries. The headquarters for Boeing's Vertical Lift division is located in Ridley Park, PA, just west of Philadelphia. The site produces and modernizes battle-tested rotorcraft such as the CH-47 Chinook and V-22 Osprey. Boeing is proud to work with 287 suppliers and vendors located in New Jersey, accounting for \$307 million in purchases in 2018, and supporting an estimated 8,000 direct and indirect jobs in New Jersey.

The Boeing Company is a 'Champion'-level corporate sponsor of SAMPE North America, committed to helping students of all backgrounds achieve their full potential through collaborations designed to inspire and cultivate a global workforce for aerospace innovation. Boeing is making a significant investment to promote youth engagement in material and process engineering by increasing their sponsored student memberships to well over 600 students, a 65% increase over the prior year. Other key areas of the sponsorship agreement include an emphasis on Boeing collaborating with SAMPE on future workshops, tradeshow and conference participation, and the support of SAMPE's student poster, bridge, and additive manufacturing competitions.

For more information, contact:



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New Jersey Chapter

2022

Support the NJ Chapter of SAMPE

***Celebrating our 45th year of service to the greater
NY/NJ/CT/PA area***

- Attend a meeting***
- Network with industry peers***
- Make a presentation***
- Become a Corporate Sponsor***
- Volunteer***



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