

# MSE 520: SEMINAR SERIES

MATERIALS SCIENCE & ENGINEERING | SPRING 2018

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## Carbon Fiber Composites - History and it's Future -

Toray Industries, Inc., Japan, has pioneered to commercialize Carbon fiber production in 1971. Currently Toray is the world's largest Carbon fiber manufacturer. In early 1980's, the Boeing company release an extremely challenging target for impact resistant toughened composites. A unique invention was made by Toray and was awarded as a sole source supplier for the Boeing 777 empennage and floor beams, which were entered into service in 1995. After building 10-15 years of flight experience, production and quality stabilization enabled the composite materials to be reliable enough to be applied for wing and fuselage for 787, which were entered into service in 2011. This seminar covers how the Material Science and Engineering contributed to making the world change, and what the challenges of composite materials are for the future from Toray's historical point of view.



### Nobuyuki Odagiri

Vice President and Senior Technical Fellow  
Toray Composites Materials America, Inc.

Nobuyuki Odagiri is the Vice President and Senior Technical Fellow of Toray Composites Materials America, Inc. (CMA) in Tacoma, WA. He was assigned to his current position in April 2017, after Toray Composites (America), Inc. (TCA) merged with its sister company in Alabama. He is mainly responsible for the collaboration work with customers, universities, and academic institute on Carbon Fiber Reinforced Composite Technologies. Prior to his current assignment, he was the Executive Vice President and Chief Technology Officer of TCA (Sept. 2015-Mar. 2017). He was responsible for the overall management of TCA operations including setting a future strategy as well as the Research & Development of Carbon Fiber Reinforced Composite Technologies.

