

We are pleased to present the following speaker for our **February 11 virtual meeting** – Details to follow!

### USE OF ADVANCED COMPOSITES IN THE CYCLING AND AUTOMOTIVE INDUSTRIES

**Richard Matthews**

**Thumbprint Solutions Inc.**

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#### Abstract

In this presentation, we will discuss the current state of the use of advanced composite materials in the cycling and composite industries, based on recent experience in these

areas. We will highlight some of the key aspects of designing these products using advanced composite materials, including CAE, testing and practical experience. In addition, we will review some of the new technologies starting to be implemented and discuss their potential for performance improvement and cost reduction.

#### Biography

Richard Matthews is the Engineering Manager at TSI Engineering, a Stouffville based engineering consulting company specializing in mechanical engineering design and simulation services, across many industry sectors. He has over 25 years experience in mechanical and structural design, including work on a wide range of products – from satellite equipment, to

digital video projectors to high end composite racing bicycles. He specializes in composite materials design and analysis.

He holds a BS in Civil Engineering from the Univ. Waterloo and a MS in Aerospace Engineering from the Univ. Toronto.

#### MEETING DETAILS

**This will be a virtual meeting utilizing Microsoft Teams. There is no charge for the meeting, which will be held on Thursday, February 11, 12pm-1pm**

**Save the date/time**  
**Log-in details to follow**  
**via email blast in a few days.**



### 2020– 2021 Meeting Schedule

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September 17, 2020 – Jacob Shevrin,  
Evonik Corp.

September 21-24 – CAMX, On-Line  
Conference

October 15 Golf Outing, Picatinny  
Arsenal

December 3, 2020 – Brian Kleinheinz,  
BYK Inc.

January 14, 2021 – Francisco De Caso,  
Univ. Miami

February 11, 2021 – Richard Matthews,  
Thumbprint Solutions Inc.

March 4, 2021 – Kelvin Fu, Univ. of  
Delaware

April 1, 2021 - TBD

May 6, 2020– TBD

May 2021– SAMPE 2021, Long Beach  
CA

June, 2021 – 2<sup>nd</sup> Annual NJ Additive  
Manufacturing Symposium, in collaboration  
with Rutgers Mechanical Engineering  
department – in planning stages now.

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