“Additive Manufacturing”
Wednesday, November 18th, 2015

Minnesota Chapter ASM hosts Victor Jaker, Materials Engineer at Stratasys, and his presentation on “Additive Manufacturing” at the Green Mill in Plymouth, Minnesota on Wednesday, November 18th.

Vittorio (Victor) Jaker is a Materials Engineer at Stratasys, working in R&D Materials Development. He has been with Stratasys for four years, and has developed several new thermoplastic materials for Fused Deposition Modeling (FDM) applications. Victor’s technical focus and expertise is primarily in three areas: high-temperature polymers, polymer blends and alloys, and thermoplastic composites. He is well versed in both conventional polymer processing techniques, as well as the full range of additive manufacturing technologies. Victor is a Minnesota native, and graduate of the University of Minnesota’s Materials Science and Engineering program. Victor is currently pursuing his Masters in Polymer Science through Lehigh University. In his free time, he enjoys cooking, playing his electric guitars, and spending time with his lovely wife and energetic dog.

Additive Manufacturing Overview – Going Mainstream

Additive manufacturing in its various forms has been a convenient method for prototyping and visualization for over 25 years. In the last decade, more and more additively manufactured parts have been used directly in “end-use” applications in fields ranging from automotive, to aerospace, to consumer, and even medical. Regardless of the technology, many hurdles remain in bringing the part quality, build-speed and materials offerings up to the standards currently employed across industry. This talk will highlight these various challenges, with a particular focus on applications in the medical field, and on key challenges facing FDM materials adoption and growth into this area.

(More Information Page Two)
## Meeting Information

**Reservations:** It's important to make reservations and equally important to make reservations **EARLY** for planning and catering. Reservations for the meeting are due on **Friday, November 13th at 12:00 PM**, and they can be made by going to [www.mnasm.org](http://www.mnasm.org).

**Refunds:** Refunds are not provided after the reservation due date because we are charged for it. If payment is not made online at the time the reservation is made, you will be invoiced for the reservation.

**Payment:** When you arrive, you or your company may pay by **credit card**, **cash**, or **check** made payable to **ASM MN Chapter**. Discover, Master Card, Visa, and American Express are accepted. Payment is due at check-in.

**Hotel Information:** If you are planning an overnight stay, make your room reservation on your own by calling 763.553.1600 (The Best Western Kelly Inn connected to the meeting area.).

**Membership:** For ASM Minnesota Chapter membership, contact one of the board members, email joyclifford@comcast.net, or go to [www.asminternational.org](http://www.asminternational.org), It is equally important to keep your profile updated and to not let your membership lapse.

## Schedule

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>5:00</td>
<td>Social</td>
</tr>
<tr>
<td>6:15</td>
<td>Italian Buffet</td>
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<tr>
<td>7:00</td>
<td>Talk</td>
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## Cost

<table>
<thead>
<tr>
<th>Type</th>
<th>Cost</th>
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</thead>
<tbody>
<tr>
<td>Non-members</td>
<td>$30</td>
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<tr>
<td>Members</td>
<td>$25</td>
</tr>
<tr>
<td>Students</td>
<td>$5</td>
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</tbody>
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## Location

The Green Mill is located northwest of the Twin Cities at the southeast intersection of Highway 55 and 494 in an industrial park area, south on Xenium and west on 26th Ave. N.

Green Mill Restaurant  
2705 Annapolis Lane N  
Plymouth, MN  55441  
763.553.9000
Student-Industry Event at U of M

Minnesota Chapter ASM visited Amundson Hall at the University of Minnesota on Wednesday, October 21st for a reception with UMN faculty and students, an undergraduate poster session, and presentation by Assistant Professor David Flannigan from the Department of Chemical Engineering and Materials Science. Approximately 60 people attended the event.
Mark Your Calendar for the Holiday Party - December 9th

MN Chapter ASM will host its annual holiday party in conjunction with its monthly technical meeting on Wednesday, December 9th at the Green Mill Best Western in Plymouth, Minnesota. Our guest presenter, Joe Gustafson, Washington County, will present the “why’s and how’s” of the recent surges of the “Minnesota Roundabouts” which seem to be popping up everywhere.

Spouses and guests are invited to attend and participate in the social hour and presentation. Details will be published online and in next month’s meeting notice.

Companies willing to contribute to the annual gathering or sponsor appetizers or desserts are asked to contact joyclifford@comcast.net or call 612.501.5992 by November 13th. Sponsorships will keep the meal costs reasonable while providing a festive meeting for members, spouses, and guests.

2015-2016 MN Chapter Program Schedule

<table>
<thead>
<tr>
<th>Meeting Date</th>
<th>Topic</th>
<th>Speaker</th>
<th>Meeting Location</th>
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</thead>
<tbody>
<tr>
<td>Wednesday</td>
<td></td>
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<tr>
<td>September 16th</td>
<td>TOUR of Medtronic Energy and Component Center (MECC)</td>
<td>MECC Staff</td>
<td>6800 Shingle Creek Parkway Brooklyn Center, MN 55430</td>
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<tr>
<td>October 21st</td>
<td>Student - Industry Networking Event</td>
<td>Professor David Flannigan University of Minnesota</td>
<td>U of M Amundson Hall Minneapolis, MN</td>
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<tr>
<td>November 18th</td>
<td>“Additive Manufacturing”</td>
<td>Victor Jaker Stratasys Ltd.</td>
<td>Green Mill Plymouth, MN</td>
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<tr>
<td>December 9th</td>
<td>“Minnesota Roundabouts” Holiday Party</td>
<td>Joe Gustafson Washington County</td>
<td>Green Mill Plymouth, MN</td>
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<tr>
<td>January 20th</td>
<td>TBD</td>
<td>TBD</td>
<td>Green Mill Plymouth, MN</td>
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<tr>
<td>February 17th</td>
<td>Annual Full Day Seminar “Welding and Joining”</td>
<td>Various Speakers / Professional Dev. Hours Cert. Available (5)</td>
<td>Hennepin Technical College Brooklyn Park, MN</td>
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<tr>
<td>TBD</td>
<td>Annual MinnTS (Technical Symposium)</td>
<td>Various Speakers</td>
<td>Medtronic Fridley, MN</td>
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<td>April 20th</td>
<td>Past Chair Night / Scholarships / Awards</td>
<td>ASM Trustee</td>
<td>Green Mill Plymouth, MN</td>
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<td>May 18th</td>
<td>TBD</td>
<td>TBD</td>
<td>Omni Brewing 9462 Deerwood Lane N Maple Grove, MN 55369</td>
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