

## MINNESOTA LOCAL SECTION

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### MARCH 16TH: MINNESOTA TECHNICAL SYMPOSIUM (MINNTS)

**Joint Meeting with the Minnesota Technical Symposium** ([www.minnts.org](http://www.minnts.org) (<http://www.minnts.org>))

**Topic:** Virtual Reality/Augmented Reality

**Speakers:**

**Hayley Borck**, "*MonitAR Intelligent Guidance using Augmented Reality*." She is currently with Adventium Labs (cyber security and system engineering). She is working on a project for NASA on AI systems used to guide astronauts when they are not in contact with earth communications.

**Michael Nowak**, "*The Rise of Virtual Reality*," currently with Ultimarc and founder of Vektor Software. He is one of the cofounders of the Minneapolis Virtual Reality Meetup. He will give us a history of the development of VR (and AR).

**Location:** Ecolab Innovation Center, 655 Lone Oak Dr., Eagan, MN ([map](#))

(<https://www.google.com/maps/place/Ecolab+Research+%26+Development/@44.8506767,-93.1707027,12z/data=!4m5!3m4!1sox87f62ce7236fdbf3:ox7ebc7b4a990bdeaf!8m2!3d44.8521731!4d-93.1144051>), **Ecolab campus** ([http://mnacs.sites.acs.org/Meeting/Fliers/Schuman Campus Map and Directions.pdf](http://mnacs.sites.acs.org/Meeting/Fliers/Schuman+Campus+Map+and+Directions.pdf))

**Time:** 4:00pm - Ecolab tours; 5:00pm - Networking; 6:00pm - Dinner; 7:00pm - Presentations

4:00	Innovation Center Tours begin	
5:00	Last Innovation Center Tour departs	
5:00 - 6:00	Registration, social with refreshments	
6:00 - 7:00	Dinner	
7:00 - 7:15	Welcome message, introductions (Gary Korba)	
7:15 - 8:00	Hayley Borck, " <i>MonitAR: Intelligent Guidance using Augmented Reality</i> "	
8:00 - 8:15	Break	
8:15 - 9:00	Mike Nowak, " <i>The Rise of Virtual Reality</i> "	

**Cost:** \$25 for members (please specify that you are an ACS member - the section is subsidizing the meal)

**Menu:** TBD

**Meal Ticket:** Starting around Feb. 20th, reservations can be made on the [MinnTS](http://www.minnts.org/) (<http://www.minnts.org/>) webpage where you can purchase meal reservations through PayPal

**Deadline:** March 9th

**Abstracts:**

*"MonitAR: Intelligent Guidance using Augmented Reality"* (Hayley Borck)

MonitAR is a novel application of Case-based Reasoning (CBR) that combines intelligent tutoring using Augmented Reality (AR) and prediction. The MonitAR system is intended for use as an intelligent guidance system for astronauts conducting complex procedures during periods of a communication time delay or blackout from Earth. The approach takes advantage of the relational nature of time-series data to detect a task that the user is completing and diagnose the issue when the user is about to make a mistake.

*"The Rise of Virtual Reality"* (Michael Nowak)

The Virtual and Augmented Reality market reached over 5 billion dollars last year and it's rapidly expanding. With the estimated growth rate of over 180% and solid adoption it is becoming the next computing platform. Mike Nowak will discuss the current VR and AR ecosystem including hardware, inputs, distribution platforms and the latest content. The VR and AR ecosystem will transform education, gaming, architecture, engineering and many other disciplines. These disciplines will experience large shifts in how we create, distribute and consume information. We currently experience digital content through a two dimensional window. The Virtual and Augmented Reality gives us a fully immersive way of interacting with digital content.

### Members Area

[Sign In](#) or [Register](#)

### Upcoming Events



**Chemists in the Library**

Saturday, Apr 6 at 1:30 PM - 3:30 PM



**Chemists in the Library**

Saturday, Apr 27 at 1:30 PM - 3:30 PM



**Chemists in the Library**

Saturday, Jun 8 at 1:30 PM - 3:30 PM



**Chemists in the Library**

Saturday, Jun 29 at 1:30 PM - 3:30 PM

**Featured Products**



- [February 18th, 2019 Student Meal Ticket](#)

\$5.00



- [February 18th, 2019 Meal Ticket](#)

\$15.00

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