

# ASD SPARK

## Conference Series

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The Academy for Science and Design is advancing our mission of cultivating New Hampshire's future innovators in science and technology through the creation of several full- day conferences throughout the academic year.

SPARK Conferences (Symposium Promoting Advancement of Real-world Knowledge) are intended to expose our students to various STEM careers, relevant topics and issues in the realm of science and technology, as well as to the cultivate their unique interests and talents. On SPARK days, regular classes are suspended, and every student spends the day immersed in workshops, discussions, and demonstrations designed to enrich their educational experience.

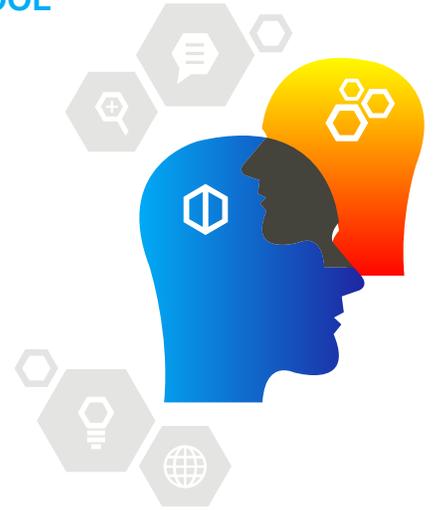
Presenters at SPARK include various members of the ASD school community such as faculty, students, and parents; in addition, SPARK presenters come from various community organizations, individuals from higher educational institutions, as well as innovators within the corporate sphere.

## Designing a Session

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Presentations at SPARK can be in any format necessary— workshops, labs, lectures, round-table discussions, panel- discussions, etc. Perhaps your company has developed an ingenious new method for online advertising or you would like to share your field journals from researching the behavior of loggerhead sea turtles. ASD students would deeply benefit from your story of starting a business by convincing a group of venture capitalists to invest in your unique idea, or of your innovative game design concept. Surrounding industries and colleges also take advantage of SPARK conferences as a forum to educate ASD students about their company or program.

Through a combination of lectures, demos, and workshops presenters will lead students to a explore a variety of disciplines, spanning topics that are focused on a specific subject, such as the life-span of a house fly, or that ask a "big" question, such as "How can we reduce our carbon footprint?"



### ASD AT A GLANCE



Open-enrollment,  
chartered public school  
serving  
grades 6-12



Tuition-free for New  
Hampshire residents



Focus on Science,  
Technology, Engineering,  
and Mathematics (STEM)



School is in it's eleventh  
year of operation with  
525 students

# Presenting at SPARK

2017-2018  
ASD SPARK Days

October 11, 2017  
December 13 2017  
March 28, 2018  
May 23, 2018

## SPARK Session Times

Session 1 - 8:15 - 9:35 am  
Session 2 - 9:50 - 11:10 am  
Session 3 - 12:30 - 1:50 pm  
Session 4 - 2:05 - 3:25 pm

So you've decided to present at an ASD SPARK Conference...now what? Go to [www.asdnh.org](http://www.asdnh.org) and click on the SPARK registration link to register your session idea and take the first steps towards impacting our future leaders in science and technology. Each session leader will write a brief description of the content of their session, and have the opportunity to clarify the age-level, space needs, technology requirements, and number of participants appropriate to their conference session. ASD will work to provide the items needed by the presenter. You will receive a confirmation email once your submission is reviewed.

A few days before the SPARK Conference for which you registered, you will receive an email with final details, including the number of students in your session and schedule information. If you have any additional questions or need further clarification, please contact [lisa.moser@asdnh.org](mailto:lisa.moser@asdnh.org).



## All it Takes is an Idea!

### **GAME NETWORKING, PLEASE...**

An overview of what makes modern day multiplayer gaming possible. How do multiplayer games handle their networking? What techniques are common and useful? What is the right networking model to choose for a game wanting to have multiplayer capability?

— Presented by William Smith

### **THE MATHEMATICAL FOUNDATIONS OF MUSIC**

This talk is a brief introduction to the patterns that emerge in music, and how they arise out of the physics of sound and our perception of it. No musical training and no advanced math skills required! You'll be fine so long as some basic algebra won't freak you out. The talk will feature musical examples from a wide variety of genres, including some of my own recordings.

— Presented by Paul Cantrel

SYMPOSIUM

PROMOTING

ADVANCEMENT of

REAL-WORLD

KNOWLEDGE