

ASD SPARK Conference Series

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.

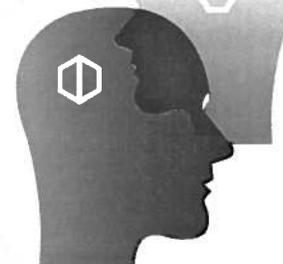
SPARK Conferences (Symposium Promoting Advancement of Real-world Knowledge) are intended to expose our students to various STEM careers, relevant topics and issues in the realm of science and technology, as well as to cultivate their unique interests and talents. On SPARK days, regular classes are suspended, 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.

Presenting at SPARK

So you've decided to present at an ASD SPARK Conference...now what? Go to 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. Resources, such as projectors, are limited, but ASD will work to provide the items needed by the presenter. You will receive a confirmation email from ASD Director Jennifer Cava 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 jennifer.cava@asdnh.org.



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 its eighth
year of operation with
500 students

Designing a Session

2014-2015
ASD SPARK Days

October 22, 2014
December 17, 2014
February 11, 2015
April 8, 2015
May 27, 2015

SPARK Session Times

Session 1 - 8:15 - 9:35 am
Session 2 - 9:50 - 11:10 am
Session 3 - 12:20 - 1:40 pm
Session 4 - 1:55 - 3:15 pm

All it Takes is an Idea!

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

GAME NETWORKING, PLEASE...

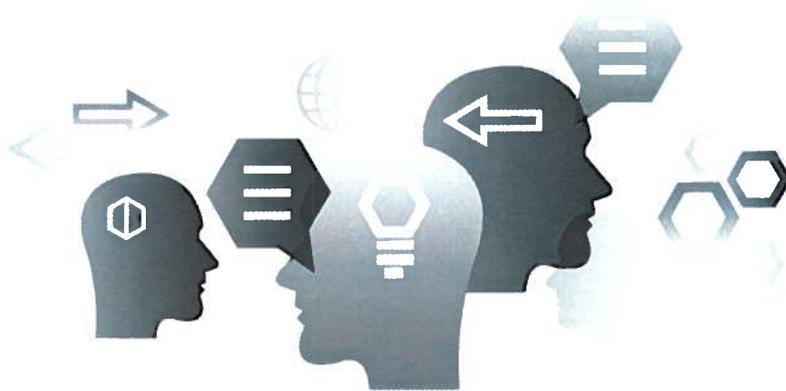
An overview of what makes modern day multiplayer gaming possible. How do multiplayer games handle their networking? What techniques are common and useful? What is the right networking model to choose for a game wanting to have multiplayer capability?

— Presented by William Smith

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 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?"

Presenters at SPARK believe it is critical to enlighten and inspire our young leaders of tomorrow through exposure to experiences, ideas, and challenges that will help them to become creative and energetic leaders. Individuals who give their time to this conference series are shaping New Hampshire's future in the realm of science and technology.



SYMPOSIUM

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ADVANCEMENT OF

REAL-WORLD

KNOWLEDGE

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