



National Youth Science Foundation

Inspiring Lifelong Engagement and Ethical Leadership in STEM

MakerSpaces

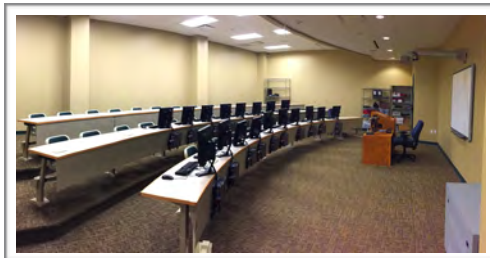
NYSCenter, Davis, West Virginia — In June 2015 the National Youth Science Foundation (NYSF) achieved a major milestone by establishing the *National Youth Science Center* (NYSCenter) near Davis in Tucker County, West Virginia. With a long-range vision to establish a permanent home for its flagship program, the National Youth Science Camp (NYSCamp), and to offer additional innovative STEM-focused education programs on this LEED-certified 150-acre campus, the NYSF has embarked on a major transition for the facilities.

In the first phase, the NYSF has started to upgrade the NYSCenter's STEM education capabilities by establishing three **MakerSpaces**:

- **MakerSpace^{LAB}**
- **MakerSpace^{IT}**
- **MakerSpace^{SHOP}**

Collectively, these three MakerSpaces will foster creative and innovative engineering-oriented pursuits such as electronics, robotics, 3-D printing, computer programming and networking, and the use of CNC tools, as

well as more traditional activities such as metalworking and woodworking. The NYSF's launch corporate sponsor is **Stratasys** who has donated a **MakerBot** 3D printer along with supplies and training.



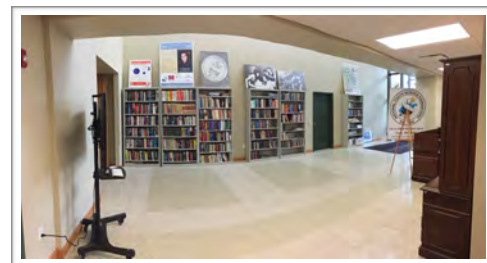
In the second phase, the NYSF will establish critical new partnerships with local and regional public and private schools and businesses. This will allow the NYSF to enrich education opportunities and to facilitate meeting science and mathematics education standards while building important STEM links between education institutions, businesses, and industry. These MakerSpaces will enable programs like the NYSCamp and the Youth Science Discovery Experience (YSDE) to make tangible connections between abstract topics introduced in traditional lectures and small-group directed studies with real-world hands-on problem-solving activities. Future phases

will include launching new STEM programs and relocating the NYSCamp to the NYSCenter.

Once the NYSCamp is relocated to the NYSCenter, the NYSCamp's academic areas will be modernized and enhanced to become focal-points of innovation and discovery.

- **MakerSpace^{LAB}** will serve as the NYSCenter's Physical Science Area,
- **MakerSpace^{IT}** will serve as the NYSCenter's Computer Science Area, and
- **MakerSpace^{SHOP}** will serve as the NYSCenter's Applied Arts Center.

We encourage individuals and corporations to support the **MakerSpace** project with financial and in-kind donations. Please visit <http://makerspace.nyscenter.us> for details, contact information, and links to donate online. Thank you for any support that you might provide!



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Support STEM Education by Contributing Today!

Competency in STEM (science, technology, engineering, and mathematics) is more important now than ever before. While traditional science and mathematics curricula provide essential foundational understanding, the unique programs and facilities of the National Youth Science Foundation make STEM exciting and relatable. Whatever your STEM interest, your investment in the NYSF will be transformative by encouraging students to pursue STEM education and careers.

The National Youth Science Foundation is a 501 (c)(3) charitable organization (Federal Tax ID Number 55-0630700). Contributions made to the NYSF are tax-deductible as allowed by law.

Donate securely online at <http://support.nysf.com>.

SUPPORT STEM!



National Youth Science Foundation®

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2016 NATIONAL YOUTH SCIENCE CAMP

Experiencing STEM & Making Memories in West Virginia

What is it you remember about your National Youth Science Camp (NYSCamp) experience? Was it the rustic atmosphere, the engaging presenters, the talented and diverse peer group, the outdoor adventure program, the surprising special events, the Morning Show, name tags, frisbees, or the enthusiastic “staph”? Now, a new group has made memories at Science Camp and shares in your experience.



Drew Gupta (West Virginia 2016), shares - “My favorite part of the National Youth Science Camp was being surrounded by highly talented individuals who endeavor to utilize their talent in the pursuit of leaving the World a better place.”

Sara Hartke (Alaska 2016) reflects on NYSCamp in this way: “All of the presenters willing to answer any questions, even those outside their field. Science Camp has given me a better idea of which careers interest me and how to get there.”



Even though each NYSCamp year has its own special combination of experiences with surprises and activities, this program continues to produce amazing results for its participants and connects them to all previous *NYSCamp Alumni*. For more information about the 2016 NYSCamp, please go online to <http://2016.nysc.org>.

Applications to attend the 2017 National Youth Science Camp will be accepted starting November 1, 2016, and continue through March 1, 2017. Please encourage graduating high school seniors you know to apply at: <http://apply.nysc.org>.

Youth Science Discovery Experience

The NYSF has developed a STEM enrichment program based on elements of the NYSCamp and the West Virginia Governor’s School for Mathematics and Science which it operated for ten years. Two versions of the YSDE are available: **YSDE - Project-Based Learning** and **YSDE - Field Trip**.

YSDE - Project-Based Learning : The YSDE - PBL is a five-day program for high school students based on real-world STEM projects. Led by STEM professionals, students work in teams of 8 to 10 students on a project that includes data collection, analysis, and presentation. The YSDE - PBL is designed to provide valuable connections between the traditional science and mathematics curriculum and further education and careers in STEM-related fields.

YSDE - Field Trip : The YSDE - FT is a weekend program for 7th and 8th grade middle school students. Groups of 12 students and two teachers or chaperones visit a STEM destination to explore education and career options in STEM-related fields. Additional activities include opportunities to explore the NYSCenter’s MakerSpaces and to interact with STEM professionals in an informal setting. Twenty-one groups of WV students are funded for the 2016-17 school year.

For more information or to apply to have your students attend, please see <http://www.ysde.org>.



Please help the NYSF provide important STEM programs to deserving young students!
Donate online at <http://support.nysf.com>

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THANK YOU!