

The GOVERNOR'S INSTITUTE of VERMONT



2014 Achievements

Enrollment:

Summer: 426

Winter: 120

Total: 546

Student Demographics:

52% female, 48% male

Number of Institutes: 11

Institute Topics:

Arts, Asian Cultures, Current Issues & Youth Activism, Engineering, Environmental Science & Technology, Information Technology & Digital Media, Mathematical Sciences, Special Topics: Entrepreneurship, Special Topics: Farms, Food, and Your Future, and 2 Multidisciplinary Winter Weekends.

Referring Schools:

79 Vermont high schools
3 other schools (VT residents)
11 homeschooled

Scholarships:

405 students paid less than full price due to financial need.
39 students received EPSCoR incentive grants.

Scholarship Total: \$376,209

Average Scholarship: \$929

College Campuses: 6

Castleton State College, Champlain College, Goddard College, School for International Training, University of Vermont, Vermont Technical College



Training and Inspiring Young Entrepreneurs

Enterprising young Vermonters asked for it

- so in 2014, GIV launched the Governor's Special Topics Institute on Entrepreneurship! Lead expert Laurel Butler assembled a crackerjack team to host GIV's first weeklong intensive on starting and running a business at Vermont Technical College. Twenty-two young Vermonters enjoyed in-depth seminars covering idea generation, marketing, finance, skills self-assessment, human resources and more. Developing an original business idea throughout the week, student teams then pitched some amazingly creative and well-thought-out concepts to business experts and college reps in a Rocket Pitch session.

Said one participant: *"It made me realize that being a successful entrepreneur demands constant focus and passion. I know going into college I will take what I have learned from this Institute and apply it to not only my education, but my everyday life. Because of my experiences at GIV I now have a new perspective on what it means to achieve success."*

Thank you to all who gave this Institute such a powerful launch. We look forward to GIV Entrepreneurship 2015!

Leading the Way for Teen Girls' Achievement – And Boys'!

Many people know GIV is a leader in STEM education for young women in Vermont. GIV works tirelessly to locate young women with a spark of interest in science, technology, engineering or math, and to partner with EPSCoR to fan that interest into a flame. Each year more than 1/3 of our STEM Institute participants are girls, and we continue to make progress toward equal representation.

What is less widely recognized is the declining school achievement of Vermont boys – and the key role GIV is playing in addressing that troubling inequity as well. Two years ago we initiated a partnership with the Agency of Education, the Lake Champlain Regional Chamber of Commerce, and the School for International Training that sparked the first regional dialogue and prompted Governor Shumlin to publicly spotlight the problem. Now a new Vermont Community Foundation grant will help us take it a step further, extending the dialogue and galvanizing more concerned people to take action. To get involved, call or email GIV.

2015 Winter Weekends
Astronomy, Math for Girls and More!
Details page 10



The GOVERNOR'S INSTITUTEs of VERMONT

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Laurel Butler

*"GIV taught me so much
about myself, my dreams
and the world around
me. This experience has
changed my life."*

– Natalie Jones,
Arts 2014

Dear Friends of GIV –

Welcome to GIV's annual publication: part newsletter, part annual report, part yearbook. As you look through these pages you'll see young Vermonters describing their remarkable, even transformative, GIV experiences in words and in smiles. As you enjoy reading this, we hope you feel proud. All this exhilaration and self-actualization only happened because of YOU.

So many dedicated individuals and organizations come together to give Vermont's most talented teens the academic and creative depth they crave at prices all can afford. We salute the tenacious Vermont legislature and our incredibly committed donors (who match every state dollar nearly five times over); the superbly talented teachers who rearrange their summers to mentor hungry learners; and the caring school personnel and parents who recognize their teens' potential and guide them to embrace it. YOU are the ones who enrolled a record number of participants in GIV for the fourth year in a row – and made sure that every student who needed a scholarship received one. YOU are the ones who stewarded the personal, social, academic and career development that has 2014's graduates glowing with excitement about their futures.

A special thanks is owed to Marge Petit, the world-renowned math education specialist who was GIV's Board Treasurer for many years. Marge's passionate advocacy for low-income students and her contributions to sound governance have helped make GIV the potent ally for bright Vermont teens that it is today. GIV volunteer Kathleen Kocherlakota, whose contributions on GIV's 30-Year Outcome Report continue to position GIV as a national model for evidence-based solutions, also merits a shout. And our newest Board member, Ed Flynn, comes aboard just in time to help us plan a new season full of joyous academic and creative growth for young Vermonters.

As you read these pages, we hope you will feel the magic you've helped create this year for 546 young leaders. In opening their eyes to their own potential and that of the world around them, together we are building a brighter future.

Sincerely,


Bob Turnau, Board President


Karen Taylor Mitchell, Executive Director

P.S. Two 2015 Winter Weekends at Goddard and Marlboro Colleges will offer a smorgasbord of enticing topics for almost any talented learner! Applications are online at www.giv.org; more details on page 10.

GIV's Sliding Scale Tuition Ensures All Students Can Attend

**Note: all tuition levels are suggested. Applicants are encouraged to call if their financial situation doesn't match this chart. We aim to have no student excluded due to financial constraints.*

Annual Family Income	\$0-\$20,000	\$20-\$45,000*	\$45-\$60,000*	\$60-\$80,000	\$80-\$100,000	>\$100,000
Short courses - Engineering* - Environmental Sci/Tech* - Mathematical Sciences* - Info Technology* - Asian Cultures (first year) - Special Topics	\$10	\$150	\$450	\$750	\$950	\$1250
<i>*Attention girls in the 4 starred Institutes! EPSCoR will pay part of your tuition so you can subtract even more off of the prices above! See www.giv.org/epscorgirls for more details.</i>						
Long courses - Arts - Current Issues & Youth Activism	\$20	\$250	\$550	\$950	\$1350	\$1850



Institute Briefs

Arts

Castleton State College came alive this summer as 129 young artists flocked together to explore their creative potential. Young people sang, danced, sculpted, drew, painted, beaded, wrote, and created their hearts out! New this year, young artists wrote and recorded their own songs in songwriting class, built larger-than-life illuminated sculptures (including a 10 foot octopus!) in Lighting Structures, and participated in an Art & Politics roundtable with professional artists-cum-legislators Dick McCormack, Diane Snelling, and Bill Botzow. Budding sculptors visited the working studio of sculptor Kerry Furlani and the Taran Brothers Quarry to learn about Vermont's slate carving history. The beloved evening performance series brought poetry slams, student cabaret, and professional artists like Justin Lander and Rose Friedman's Modern Times Theater and nationally touring band Locos Por Juana.

Through it all wove the strong sense of community that is the unique hallmark of GIA. Explained one aspiring artist, *"Never had I felt more of a sense of belonging or community. I'd never been surrounded by people so passionate about not only art, but about living and interacting with others. The people there showed me the true meaning of what it's like to be inspired... I couldn't help but feel comfortable with taking risks and trying new things with my art."*

Engineering

Led by new Program Director Andrea Pearce and her extraordinary team, 78 young Vermonters converged at UVM this July to devote their energies to engineering. Would-be engineers, inventors, and creative problem-solvers chose between five areas of focus: robotics, sustainability, biomedical engineering, electrical engineering, or GIV's first-ever chemical engineering track.

A passionate flock of Knowles Science Teaching Foundation fellows, led by longtime GIV veteran Anne Watson, continued the Institute's traditional values of blending ingenuity with ethics while adding powerful young role models and mentorship. Determined student teams built a working robotic hand, designed a bicycle-powered cell phone charger, and conceived and tested technologies to anchor a fractured femur. New mini-challenges galvanized the students to venture into structural, material and mechanical engineering territory, while guest speakers like Vermont Microstrain innovator Steve Arms and Carrie McLaughlin from Engineers without Borders showcased the power of engineering to change the world. Said one participant, *"The engineers that came to speak to us every afternoon inspired me to work even harder toward my future."*

2014 GIV

by the Numbers

**Scholarships Awarded
to Students in Need**

\$354,754

Total 2014 Budget
\$983,550

**Agency of
Education
contribution**
\$192,654

Tuition Received
\$296,456

**Donated
Scholarships
and Funds**
\$220,082

Inkind Donations
\$103,000

**% of Financial Aid
Awarded Based
on Need** 94%

**Schools' Financial
Involvement**

All participating schools contribute a fee which amounts to 5% of GIV's budget. 7 schools also covered some or all of their students' tuition.

**Governor's
Schools:**

Offered in 23 states. GIV is the only one in New England. For more information, see ncogs.org.

"The Institute felt different every day, with a new presentation, group challenge or activity, or team building activities to make every day feel unique. This was part of what made it just so fantastic and memorable."

– Nathan Cozzens,
Engineering 2014



“Most importantly, I learned that even though two societies or cultures may be very contrasting with obvious differences, human beings around the world all still want the same things in life and have similar goals and aspirations.”

– Mercedes Chen,
Asian Cultures 2014

Current Issues & Youth Activism

This year the 25th annual Governor’s Institute on Current Issues and Youth Activism played host to forty-six passionate young Vermonters eager to grapple with the world’s pressing social and environmental challenges at the School for International Training.

Brimming with hope, motivation, and dedication, participants followed their interests to focus areas such as leadership, social justice, or global children’s issues, participating in discussions with a wide variety of experts and exploring potential solutions. Plumbing international and local issues in depth with experts like former US Ambassador Don Steinberg, father and son Pakistani research team Aqeel and Hadi Tirmizi, and Anna Mulaney of the Women’s Freedom Center, students crafted policy during a Congressional legislation simulation and then discussed real-life policy challenges with Vermont legislators. Graduates then showcased their learning for parents and staff by creating final presentations addressing current issues through songwriting, photography, dance, poetry, theater, and art.

Institute founder John Ungerleider and co-director Simon Norton have a lot to be proud of as they graduate a 25th generation of young activists, all of whom say things like *“It made me feel like I could do something... that I shouldn’t be afraid to be me, and to believe and work towards my goals, and change the things I want changed.”*



Asian Cultures

“GIV was the best educational experience I’ve ever had,” reported one young scholar from this year’s Asian Cultures Institute, where 20 internationally-minded young Vermonters fully immersed themselves in Asian history, culture, art, and anthropology at UVM for a week. Participants learned Chinese language and history, studied Asian art at the Fleming museum, encountered Japanese pop music, connected with Chinese students on the UVM campus, and experimented with simulations of the Chinese economy. One Asian Cultures graduate describes the variety and depth of her learning, *“I learned how to speak Chinese, ate amazing Asian food, learned Tai Chi, and much more. I was opened up to a whole different culture I was not fully aware of. I became more open to the world...”*

Their new cultural competency skills and social awareness will become invaluable as these graduates travel to China next summer with the Freeman Foundation and UVM Asian Studies Outreach Program – all for UVM credit. In the words of one participant, *“The Institute made me realize how much I want to go out and learn about other countries, their politics, their history, their culture, their language, and be able to interact and communicate with them as a profession.”*





Environmental Science and Technology

Do you care about soil and water quality in your surroundings? 27 young GIVers do, so they used the cutting-edge equipment at the Environmental Science and Technology Institute this summer to investigate and develop an interactive map of microcontaminants in the area around the UVM campus.

With the guidance of professional experts, these driven young scientists began by formulating their own plan of study, then gained training in professional research techniques before fanning out into the field to collect samples, test them in UVM's state-of-the-art lab, interpret the data and then prepare it for presentation. Institute Director Christine Massey also tied in exposure to additional fields of science, with presentations on water systems, bee health and climate change, and a science careers evening with frank discussions with visiting professionals such as a pathologist, chemical engineer, chemist, cyber specialist, and epidemiologist. One budding scientist confided, "Career night really changed my life and pointed me to the medical [field] and I'm so grateful for that."

All of this extreme learning was balanced with sports breaks, swimming parties, and picnics, leading one student to report "It was the most interesting and rewarding week I have ever spent."

Information Technology and Digital Media

Do you know your Beaglebones from your Raspberry Pi? You probably do if you attended the Information Technology Institute, where this summer 53 young talents blossomed into tech savants.

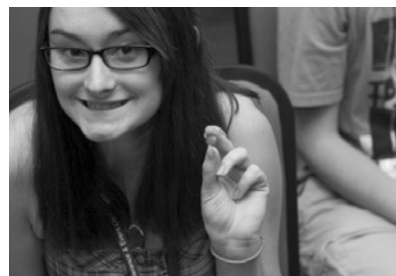
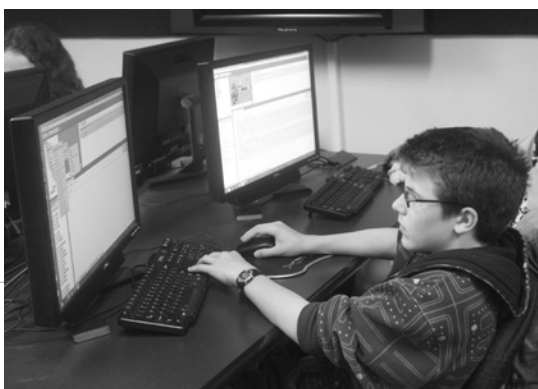
All week, aspiring tech gurus focused in one of three areas. Digital Media scholars dove into digital video and web design. Game Design gurus took game production from narrative arc through 3D digital modeling. Information Technology learners deepened their coding skills and learned cyber security by competing against each other to secure or hack a website.

Institute Directors Coby Brownell and Shannon Walters wove in cutting-edge technology like Google Glass, tech trends like Story Hack VT and the Maker movement, and presentations from gaming entrepreneur Marguerite Dibble and the professionals from Leahy Center for Digital Forensics. The traditional pizza nights and murder mystery dinner at Champlain College gave students time to socialize and strategize about collaborative final projects - developing a tech product from idea to marketplace.

Recently one 2014 graduate shared: "GIV gave me the opportunity to start thinking about my career and where I want to go in life... Since GIV I have been hired for a social media position at a local business. The skills I learned at GIV are helping immensely and I wouldn't be in the spot I am now if it wasn't for the amazing staff who taught me so much."

"I learned heaps about the technical side of science and was introduced to machines that are crucial to scientific research. The social aspect of the institute made it an even more memorable experience. In a short period of time, I made some lasting friendships...I will never forget what I learned there scientifically and socially."

– Eric Gokee,
Env. Sci 2014





Special Topics: Farms, Food and Your Future

Where does our food come from? Fifteen young Vermonters learned just how complex and fascinating Vermont's food system can be during the Farms, Food, and Your Future Institute at Vermont Technical College in Randolph. Students gleaned excess food at Pete's Greens, learned how to plow a field using draft horses at Sterling College, participated in Oxfam's Hunger Banquet, and processed food at the Vermont Food Venture Center. They learned about innovative growing techniques, soil science, the local food network, and the carbon cycle. Just a few of many guest speakers included Judith Schwartz, author of *How Cows Save the Planet*, Michelle Wallace of the Vermont Food Bank, and Agronomist Sosten Lungu. Throughout the week groups of motivated students produced projects on genetically modified organisms, historical and present use of animal breeds, carbon sequestration and soil, and food security. Impressed parents and faculty enjoyed these presentations on the final day of the Institute.

Students gained a great mix of practical skills and thorough academic study. Some plan to take these skills home to their own community farms. One told us, *"I absolutely adored attending the Farms, Food and Your Future program. We learned about hydroponics - how to grow vegetables in water - how to cultivate between rows of crops using a draft horse, and we learned about how cows help replenish the carbon cycle. These ideas will help me in my process for when I help take care of my grandfather's small dairy farm and make it even better. Thank you so much!"*

Mathematical Sciences

Math is everywhere - in nature, in our everyday technologies, in games and songs. At the Governor's Institute on Mathematics at UVM, 32 young math enthusiasts learned that first-hand. A Mathematics graduate describes it best, *"I was expecting to solve math problems all day, but instead we got to see all kinds of interesting presenters who showed different ways that math can be applied in various settings, from synthetic biology to sundials and robots. This was super interesting for me because I wasn't sure really if math was necessarily something that was going to have a whole lot of meaning, depending on where I chose to go with my career. Seeing that it can be applied in so many ways, and the things that are math without being math, was amazing."*

Chaos and fractals, the geometry of space, evolutionary robotics, unsolved math problems, and synthetic biology are just a few of the many classes offered throughout the week. Students explored the mathematics behind manufacturing at the Ben and Jerry's factory, competed in a Math Relay and Math Amazing race, and even made it to Oakledge Park for a barbeque after a long day of classes. For many the best part of the Institute was the discovering peers equally intrigued by the topics they were learning. In the words of one girl, *"I felt a sense of community that I had never felt before, a feeling that my lifelong interest really does serve a purpose in the world. I was made quickly aware that I was not alone in my love for math."*



"I learned all about chaos and fractals, probability and geometry, evolutionary robotics and sundials, and can't imagine five days better spent."

– Matt Ellison,
Math 2014



Recent
GIV alumni
celebrate
GIV's 30th
at the
Statehouse

GIV Celebrates 30 and Current Issues Institute Turns 25 with Flair

GIV's celebration of its 30th year continued into 2014 with a birthday-themed Outcomes Report Release at the Statehouse in February. Governor Shumlin led an assembled crowd of GIV students, staff, legislators and donors in a rousing round of "Happy Birthday to GIV," GIV Director Karen Taylor Mitchell described highlights of the report which brand new Education Secretary Rebecca Holcombe connected powerfully to Vermont's education priorities, and summer '13 alumna Kia Rae Hanron shared her personal experience.

Festivities continued with a birthday party for the Current Issues and Youth Activism Institute at SIT in Brattleboro. Institute founder John Ungerleider was heralded by GIV and SIT president Don Steinberg for his vision and quarter-century commitment, with co-director Simon Norton no less lauded for his integral leadership. GIV co-founder Ellen Lovell was on hand to receive a hearty Happy Birthday commendation too.

30th Campaign Welcomes New Generation of Scholars

In honor of our 30th anniversary, GIV launched a campaign to create scholarships for underprivileged students and make the Institutes even more accessible to Vermonters from all backgrounds. First we approached longtime GIV supporters to pledge \$5,000 over 5 years so students in financial need could attend the Institutes each year. Already pledges of more than \$60,000 have accrued - and the first deserving 30th Anniversary scholars attended in summer 2014.

GIV also launched an Anniversary Circle, where donors with long-term vision can make legacy gifts.

If you would like to add your pledge in the spirit of GIV's 30th anniversary, please contact Erika@giv.org.

The following donors made generous 5-year pledge commitments:

Nancy Burzon
Jim & Lyn Feinson
Stephanie Greene & Marshall Brooks, Jr.
Judy Geer & Dick Dreissigacker
Ellen & Chris Lovell
Greg & Toni Morgan
Bob & Robin Turnau
Anonymous

A huge GIV thank you to them - and everyone who donated to this campaign - for making it possible for underprivileged Vermonters to attend the Institutes for years to come!

"I hope GIV continues for many years so other teens can have the same life-changing experiences for their individual interests."

- Zayla Smith,
Asian Cultures 2014

2014 GIV Students Hailed from...

Arlington HS	Hanover HS	Randolph Tech.
Avalon	Harwood Union HS	Career Center
Triumvirate Academy	Hartford HS	Randolph UHS
Bellows Falls UHS	Hazen Union HS	Rice Memorial HS
BFA- Fairfax	Lake Champlain	Rivendell Academy
BFA- St. Albans	Waldorf HS	Rochester HS
Black River UHS	Lake Region UHS	Rutland HS
Blue Mountain UHS	Lamoille UHS	Sharon Academy
Brattleboro UHS	Leland and Gray HS	South Burlington HS
Burlington HS	LiHigh School	South Royalton HS
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Canaan Memorial H.S.	Middlebury UHS	St. Johnsbury Academy
Central VT HS Initiative	Mill River HS	Stowe HS
Champlain Valley UHS	Milton HS	Stratton Mtn. School
Chelsea Public School	Missisquoi Valley UHS	Thetford Academy
Colchester HS	Montpelier HS	Twin Valley HS
Compass School	Mt. Abraham UHS	Twinfield HS
Craftsbury Academy	Mt. Anthony UHS	U-32 HS
Danville School	Mt. Mansfield UHS	Vergennes UHS
Enosburg Falls HS	North Branch School	Vermont Commons School
Essex Center for Technology	North Country UHS	West Rutland HS
Essex HS	Oak Meadow School	Whitcomb HS
Fair Haven UHS	Otter Valley UHS	Williamstown HS
Green Mountain UHS	Oxbow HS	Windsor HS
Green Mt. Tech. Career Center	P. A. Hannaford Career Center	Winooski HS
Greenwood School	Peoples Academy	Woodstock UHS
	Poultney HS	



Thank you!

Anniversary Circle

(Legacy Pledges)

Andrea Diehl**
Christine Graham**
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*Gifts from 10/1/2013 - 11/14/2014.
We value all of our donors! If a name has been misspelled or omitted in error, please contact us at (802) 865-4448.*



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Rachel Duffy**

In Memory of **Victoria Kilburn**
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In Honor of **Andrea Diehl****
Marne Diehl

In Honor of **Monroe Ellenbogen***
David Ellenbogen**

In Honor of **Katherine Gartner***
Karen & Ed Gartner**

In Honor of **Jean Comtois Illingworth****
& **Ethan Illingworth***
Barbara Comtois**

In Honor of **Erin Kelly***
Maria Calamia & William Kelly**

In Honor of **Alison Logan***
Carol Bam**

In Honor of **Erika Nichols***
Patricia & Brett Frazer**

In Honor of **Erika Nichols***
Kim Nichols

In Honor of **Verandah Porche**
Diane & Fred Swan

In Honor of **Parker Richards***
Peter & Susan Richards**

In Honor of **Azulena Royer***
& **GIV Mathematics**
The Family of Azulena M. Royer**

In Honor of **Maddie Saylor***
Deborah & Robert Saylor**

In Honor of **Max Wirsing***
Mary Jane & Dolf Wirsing**

Schools

that partially or fully funded tuition

Brattleboro Union High School
Canaan Memorial High School
Lake Region Union High School
Lyndon Institute
Missisquoi Valley Union High School
Mt. Mansfield Union High School
Poultney High School

Organizations

that partially or fully funded tuition

Academic Boosters Association
Blue Mountain Education Foundation
Counseling Services of Addison County
The Marlboro Alliance
Schools in Richmond Fund
Warner Home for Little Wanderers
Whitingham Halifax Lions Club
Youth Services of Brattleboro

Scholarship Recipients

30th Anniversary Scholarships

Nancy Burzon Scholarship for Rutland Girls:

Molli Nolan
Maria Goodspeed

Jim & Lyn Feinson Scholarship:

Emma Rapp
Tatum MacBride

Stephen Greene Scholarship:

Amber Biczko

Bob & Robin Turnau Scholarship:

Amber Biczko
Jacqueline Kelley

American Mathematics Society:

Justin Carpenter
Allison Erena
Jacob Lisner
Fiona Milchman
Pabitra Sharma
Kira Cogger

Ky & Yu Fen Fan Scholarship:

Kimberly Bau

Donny Osman Scholarship:

Karan Saini

Gary Blomgren Memorial Scholarship:

Casey Greenleaf
Spencer Loggia

Sam Maltese Memorial Scholarship:

Lillian Smith

Walter Judge Scholarship:

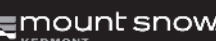
Matthew Brown
Moriah Covey
Rowan Lanxner
Abigail Leathers

Essex Economic Development Commission Entrepreneurship

Scholarship:

Caleb Guziak

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As a 501(c)(3) nonprofit, the Institutes are only possible thanks to the generous support of donors like you. Please consider giving a tax-deductible gift to GIV today online or via the enclosed envelope.

"Thank you for supporting the Governor's Institutes of Vermont. Over the past couple of years, I have participated in several Institutes. The experience is unparalleled by anything I have encountered elsewhere. I learned so much over these summers that I couldn't learn anywhere else."

– Tommy Maloney

What's a Winter Weekend?

Each February, Governor's Institutes holds 48-hour learnathons on college campuses. At these condensed Governor's Institutes, students can dive into topics they choose, meet other young people who share their interests, and connect with our faculty and staff ahead of the summer Institutes. Here are some WW FAQ:

Who can attend a Winter Weekend?

Anyone of high school age, including seniors, who loves to learn

What will I learn?

At the **Goddard Winter Weekend Feb 6-8**, you can explore:

- Entrepreneurship
- Comedy Theatre
- Current Issues
- Astronomy

Or at the **Marlboro Winter Weekend Feb 13-15**, dive into:

- Writing and Song
- Advanced Mathematics for Girls

How much does it cost?

Between \$10 - \$295. Like summer Institutes, GIV offers a sliding scale.

Where can I sign up?

www.giv.org/winter. But don't delay. Applications are already online and spaces fill up fast!

GIV is Radically Allophiliac!

Want to know what that means?
Visit "www.giv.org/diversity"
to learn more.

National Geographic Features Governor's Institute Happenings – Twice!

A project that started at a GIV Institute is garnering more international attention. In 2013, Tom Tailer encouraged a group of GIV Engineering participants to think about how discarded carpet and cement might become durable temporary shelters for use in large-scale disasters. Early models proved so promising, determined alumni tested and refined the idea over the following year, then began training international disaster relief professionals to provide low cost, sturdy shelters for displaced Haitians. National Geographic sent a film crew, and the most recent evolution of the model is described in Structure magazine at <http://www.structuremag.org/?p=7568>.

National Geographic also published a special guest post about GIV's Astronomy Winter Weekend on its invitation-only website blog. Written by GIV collaborator Damon Cawley of the Northeast Kingdom Astronomy Foundation, the post is chock full of remarkable images of the stars that GIV students captured using NKAF's cutting edge equipment. Access the full post at www.giv.org/news. *Teens – Join us Feb 6-8 for another incredible Astronomy immersion at Winter Weekend!*

Faculty Profile:

Josh Bongard, Governor's Institute on Mathematical Sciences

Can you teach robots to heal themselves?
Some GIVers know how, thanks to the Math Institute's world-renowned Josh Bongard.

A UVM professor and Presidential Award winner, Josh has authored two groundbreaking books on artificial intelligence – and in 2007, was named one of MIT Technology Review's top 35 innovators in the world under the age of 35. Josh has taught at GIV's Mathematical Sciences Institute for years, giving weeklong courses or presentations as his schedule allows. Asked why he stays involved in GIV, he says "In my lab, we love robots. It's great fun to bring that enthusiasm to the GIV students, and have it reflected back tenfold."





Arts alum Max Cantor (2005) and Arts Program Director and alumna Elizabeth (Dotson-Westphalen) Frascoia (1994) at the NYC Arts Alumni Fundraiser.

Alumni News

1984

A huge thank you to **Jamie Hathaway**, Arts, who brought national touring artists Sarah Lee Guthrie and Johnny Irion to Dorset, Vermont to perform a benefit concert for our Arts Institute in August 2014!

1985

Ray Steen, S&T, and **Gina Carmolli**, Arts '83, married in 1990 and have three children, Ryan, Kayla and Marley. Ray is the Director of Human Resources at General Dynamics in Williston, Vermont and Gina is a stay-at-home mom and hooked rug artist.

1986

Liz [Bohn] Scharf, Arts, works with Capstone Community Action in Washington County, VT as Savings and Credit Program Coordinator.

Andrea LeWinter, CIYA, practices law in Columbia, Maryland.

1989

Robin LeWinter, S&T, earned a Bachelor's degree in astrophysics and a doctorate in neuroscience.

1993

When Vermont painter **Sara Katz**, Arts, is not creating travel landscapes, she is serving as Assistant Director at Burlington City Arts. Her website is at www.saraskatz.com.

Ben Rameaka, Arts, is a professional voiceover artist and actor in New York City.

1998

Marlo Dreissigacker Kohn, Arts, gave birth to a baby boy in January 2014. She is a Mechanical Engineering Lecturer at Stanford University.

1999

Aaron Burley, S&T, is doing his pediatric residency at UVM Medical School.

2000

Kathleen Fitzgerald, AC, studied at the School of Oriental and African Studies at London University and the London School of Economics and Political Science before becoming a Washington DC-based economist at the Bureau of Labor Statistics and a research consultant at the World Bank.

2002

Ryan Gagner, IT, graduated from the Hallmark Institute of Photography in MA and now works in design/build in Brooklyn, NY.

Tim Maynes, Arts, teaches English at Vergennes High School.

What's Happening in the GIV Community

2003

Marie Longnecker, S&T/AC 2004, is earning her PhD in biodiversity and sustainability at the University College of London.

Caitlin Gagner, CIYA/Arts '04, teaches at Mt. Holly Elementary in Vermont.

2005

Ariel Marcy, IT, invented an animated game called "Go Extinct! Go Fish... Evolved" that teaches players about evolutionary trees and the scientific evidence used to classify land animals, which she successfully launched on Kickstarter in May 2014. Her mother reports: *"The animation in the opening video uses skills she learned at that Governor's Institute!"* Ariel graduated Phi Beta Kappa in biology from Stanford University and is in Australia studying echidnas on a Fulbright Scholarship.

Musician and performing artist **Martin Gutierrez**, Arts, graduated from the Rhode Island School of Design, with a major in printmaking and animation, and now works at NYC's Ryan Lee Gallery.

Elizabeth Davis, AC, earned her Master's degree from McGill in political science and is leading Burlington, VT Parks and Recreation's diversity initiative as an Americorps volunteer.

Molly Gagner, Arts/WW '06 & '07, lives in South Hero, VT. She assists autism spectrum kids for the Essex School District while earning her graduate degree from UVM.

Kyle Reed, WW 2005 & 2006, graduated with a political science degree from California Lutheran University and earned his paralegal certificate at UCLA before returning to Vermont.

A big GIA thank you to **Max Cantor**, Arts, who produced an alumni fundraiser for GIA in New York City in April that reconnected 30+ GIA alumni, staff and friends of the arts. Max graduated from New York University Law School and is an associate at Skadden, Arps, Slate, Meagher & Flom, LLP.

Tanner Ransom, CIYA/Asian Cultures 2006, graduated from Acadia University in Nova Scotia with a degree in psychology and sociology and is working at Laraway Youth and Family Services prior to grad school.

2006

Cassie Burley, CIYA, is pursuing a Master's degree in Public Health at Columbia University in NYC. She recently completed research in the neuroscience lab at her alma mater, Oberlin College in Ohio.

2007

Molly Parren, CIYA, works with the International Crane Foundation in Baraboo, WI.

Chris Woodworth, Engineering, is an engineer at GS Precision in Brattleboro and teaches machinery with Vermont Works for Women.

2008

Amanda Gokee, CIYA, built on her GIV experience by traveling to France with the Experiment for International Living. She is now studying romance literature and languages at

Harvard University, and her younger brother Eric attended GIV's Environmental Science & Technology Institute this past summer.

2009

Inspired by her experience in China through GIV's Asian Cultures Institute, UVM junior **Mikayla Peront**, AC, is now spending a semester abroad in Asia.

Lucey Gagner, CIYA/WW '11, is a junior at Trinity College in Hartford, CT, triple-majoring in sociology, human rights and gender studies. She is currently pursuing an internship in Capetown.

2010

Aya AL-Namee, S&T, is an environmental science major and President of the Student Government Association at the University of Vermont.

Derek Bisaccio, IT, studies International Relations at Roger Williams University and served as an intern to Senator Patrick Leahy during the summer of 2014.

2011

Brittany LeBeau, ESAT, is an environmental science major concentrating in soil science at UVM, where she's a student advisor to the Rubenstein School and has helped research phosphorous levels in Mississquoi Bay.

Sprague Ransom, Arts, is attending Mt. Allison College in New Brunswick.

Noa Shems, Arts/WW 2012, is studying Arts and Psychology at Hampshire College.

2012

Emma Horowitz-McCadden, Math, is studying neuroscience at UVM.

2013

Ashley Maurice, ESAT, is studying Environmental Science and Criminal Justice at Johnson State College. She writes *"GIV most definitely showed me what I wanted to do with my life and was tons of fun as well. Choosing GIV was a great idea and a wonderful experience. Thank you."*

Molly Zmich, Arts, is studying architecture at Roger Williams University in Bristol, RI.

Faculty and Staff News

Asian Cultures-Maria Ung married Ryan Royer on Oct 4, 2014 in Colchester, Vermont.

Special Topics: Farms-Molly Willard welcomed her second baby girl, Elsie Permelia Emmons, on Sept 25th.

Engineering-Dawn Densmore, who retired in 2013, was named UVM's College of Engineering and Mathematics's outstanding staff of the year for 2013.

Arts-Elizabeth Frascoia joins a growing number of GIA alumni in working for Roli, maker of a revolutionary keyboard invented by past GIA staffer **Roland Lamb**. Elizabeth is opening Roli's New York office.

Arts-Hot off the press is Robin McAllister's anthology, *Vermont Contemporary Fiction*, which includes a story by GIV Board member **Megan Mayhew Bergman**.

The GOVERNOR'S INSTITUTES of VERMONT

4049 Williston Road #4
South Burlington, VT 05403

www.giv.org



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Scholarships for GIV alums?**

Sign up for the e-newsletter
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2015 GIV Summer and Winter Institutes

INSTITUTE

Goddard Winter Weekend
Marlboro Winter Weekend
Arts
Asian Cultures
Current Issues & Youth Activism
Engineering
Entrepreneurship
Environmental Sci and Tech
Information Tech & Digital Media
Mathematical Sciences

DATES

February 6 – 8
February 13 – 15
June 28 – July 12
June 21 – June 27
June 28 – July 7
June 11 – June 18
July 6 – June 12
June 21 – June 27
June 20 – June 28
June 21 – June 26

Scholarships are available. Look for applications on our website!

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The GOVERNOR'S INSTITUTES of VERMONT

**Annual Update
Fall 2014**

Inside:

**New GIV
Entrepreneurship
Institute launches**

**Scientific stargazers
snap dazzling
photos of the skies**

**Winter tuition goes
100% sliding scale**

**A Statehouse
salute to GIV**

