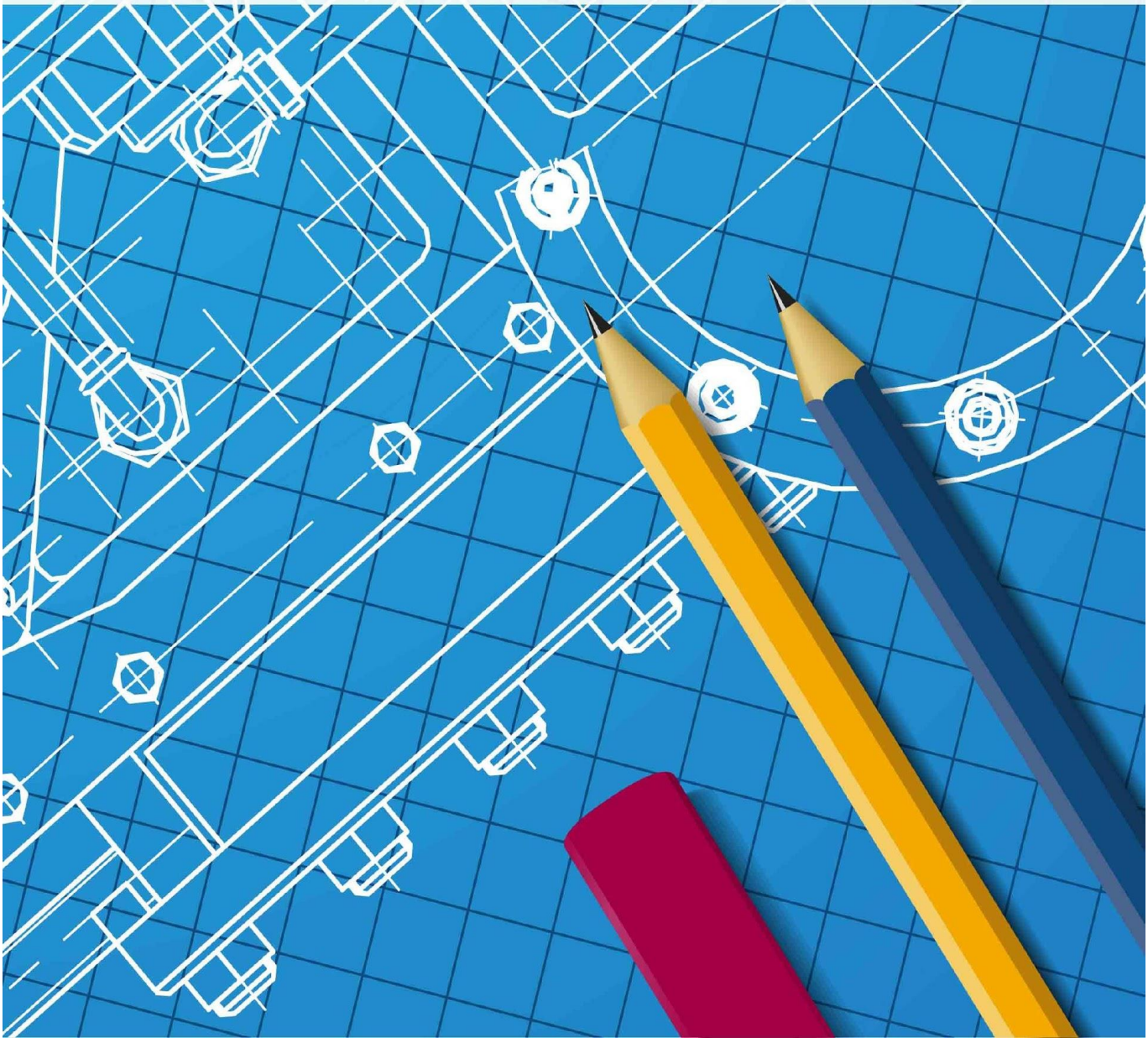
TechSavvy

A program of AAUW



Welcome

Dear Triad Tech Savvy Participants:

We are excited to collaborate with the American Association of University Women (AAUW) to bring this opportunity to the Triad Community. We are one of nineteen sites selected nationally to host this STEM (Science, Technology, Engineering, and Mathematics) event for girls in grades 6 to 9 and their parents/guardians to further their awareness about STEM education and career paths. The day also includes "Savvy Skills" designed to give girls a variety of experiences to help them gain knowledge and confidence to enhance their success.

This event is made possible with the collaboration of the AAUW Greensboro Branch, University of North Carolina Greensboro (UNCG), the Joint School of Nanoscience and Nanoengineering (JSNN), North Carolina Agriculture & Technical State University (NCA&T), Guilford County Schools, Guilford Parent Academy, Guilford County 4-H, Flying Playtpi FIRST Robotics Team 2655, Forsyth Technical Community College, and Winston Salem State University (WSSU). In addition to funding from AAUW National and State organizations, we are extremely thankful to other sponsors including Honda Jet, Lincoln Financial Group, and VF Corporation.

We are also very proud to be a part of NC Science Festival, a month long program of science activities throughout the state. We encourage you to learn more about this program at NCScienceFestival.org

On behalf of the session leaders, speakers and volunteers, we welcome you to an exciting and informative day. Our students today will become our future scientists, technology professionals, engineers, chemists, and mathematicians or they just might invent solutions to global challenges such as climate change.

Thank you for joining us.

Get ready to learn, create, and have fun!

Lakshmi Iyer, Ph.D, UNCG
Tech Savvy Co-Chair and IT is for Girls Summer Program Founder/Director
AAUW Greensboro Branch Board Member and STEM Director

Laura Tew
Tech Savvy Co-Chair
AAUW Greensboro Branch Board Member and Public Policy Chair

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MORNING PLENARY SESSION

Sullivan 101

Sponsored by Honda Jet

Welcome from UNCG and the Triad Tech Savvy Committee – Dr. Lakshmi Iyer, Graduate Programs Director in Information Systems and Supply Chain Management (ISSCM)

Triad Tech Savvy organizer and chair, **Lakshmi Iyer, PhD** is Graduate Programs Director in Information Systems and Supply Chain Management (ISSCM), UNCG Bryan School of Economics and Business. Dr. Iyer obtained her Ph.D. in Management Science and Information Technology with a minor in Computer Science after completing her Masters in Industrial Engineering and her Bachelor's degree in Chemical Engineering. For over ten years, Dr. Iyer has developed programs to enhance STEM educational opportunities for women and girls through her Women in Information Technology (WIIT) initiative. She is the founder of *IT is for Girls*, a week long summer camp at UNCG, and she is the STEM education coordinator for AAUW Greensboro Branch. She received the 2015 Aspirations in Computing, Educator Awards from the **National Center for Women in IT** for Community Engaged Teaching, "IT is for Girls" and "We Make IT."

Welcome from AAUW Greensboro – Libby Haile, Branch President

Libby Haile was born and raised in Greensboro, graduating from Page High School and the University of North Carolina at Greensboro with a BA in Biology. She completed her clinical laboratory training at the Los Angeles County – University of Southern California Medical Center and worked in the clinical laboratory there for twelve years. Her family moved back to Greensboro and she taught hematology in the clinical laboratory school at Moses Cone Hospital then moved to the Area Health Education Center as a coordinator of continuing education programs for healthcare professionals. Libby also received a Masters of Education degree from UNCG in Counseling. She has been a member of AAUW since 1997 and currently serves as President of the Greensboro Branch. Since becoming President of AAUW Greensboro last July, Libby has lead the organization in updating our bylaws and strategic plan. The Branch is focused on local programs, such as Tech Savvy, designed to better educational and economic equity outcomes for women and girls.

Key note speaker, **Iris R. Wagstaff, PhD**

Iris R. Wagstaff, PhD is a native of Goldsboro, NC. She has a BS in Chemistry from the University of NC at Greensboro and a MS in Analytical Chemistry from North Carolina A&T State University. Dr. Wagstaff has been a STEM advocate in the community for over 20 years, developing K-12 informal science programs, resourcing teachers and parents with tools to support students in STEM, and mentoring undergraduate and graduate students of color in Chemistry and Chemical Engineering. Dr. Wagstaff earned her Ph.D in STEM Education Research and Policy Analysis in 2014 at NC State University. She recently completed a two year assignment as ***American Association for the Advancement of Science (AAAS) Science and Technology Policy Fellow*** at the National Institute of Justice, Office of Investigative and Forensic Sciences. She is currently STEM Program Director at AAAS working with Dr. Shirley Malcom who is a highly regarded and history making science education advocate.

Moderator: Dawn Fant Fluerizard

From a young age **Ms. Dawn Fleurizard** was encouraged and inspired to pursue the sciences by her family, particularly her mother. Dawn attended Brooklyn Technical High School, one of the 3 Science High Schools in New York City where she was able to hone and develop her love for the sciences. She received her Bachelor's degree in Chemistry from The Lincoln University in Pennsylvania and her Master's Degree in Chemistry from North Carolina Agricultural and Technical State University in Greensboro, NC. Upon graduation Dawn joined the workforce and began her career in the Semiconductor industry which she has been working in for 20 years. Dawn has been with Amkor Technology for the past 13 years in various roles, the latest being Product Manager/Product Engineer.

She is a wife and mother who enjoys working with young people in her spare time to expose and encourage them to love and pursue STEM fields.

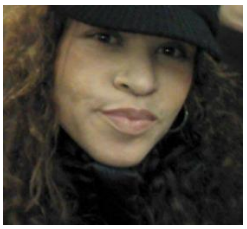
SCHEDULE FOR ADULTS

Sponsored by Lincoln Financial Group

Time	Activity	Location
7:45 to 8:30	Check-in; parents will receive a complimentary light snack; parents should wear their name tags at all times	Syngenta Lobby
8:30 to 9:00	Opening plenary session; Welcome and Key Note Girls will be assigned to their groups and dismissed for their program at 9 AM	Sullivan 101
9:00 to 9:15	Break – please allow girls to exit first to go to their STEM session. Then take your break and return to Sullivan 101	
9:15 to 10:15	Cyber Security	Sullivan 101
10:15 to 10:35	Break – visit the Nano Bus displays in Syngenta Lobby and proceed directly to the Spartan Chariot pick up area in front of Sullivan	
10:35 to 10:50	Spartan Chariot transportation to Jackson Libraries – please take your things and proceed to the bus pick up location	Pick up at front sidewalk of Sullivan
10:50 to 12:00	Information Literacy Skills; Tour and introduction to the Resources of the UNCG Jackson Library	Jackson Library
12:00 to 1:00	Lunch – your lunch ticket is in the back of your name tag	UNCG Dining Hall
1:00 to 1:20	Return to Sullivan Science choice of walking or Spartan Chariot transportation – escorts will accompany you	
1:20 to 2:20	Cognitive Development	Sullivan 101
2:20 to 2:45	Q&A and post event survey	Sullivan 101
3:00 to 3:30	Closing Ceremony	Sullivan 101

PROGRAM FOR ADULTS

Cyber Security – Mary Margaret Johnson Ph.D., Computer programming instructor at Forsyth Technical Community College. Dr. Mary Margaret Johnson born in Jersey City, New Jersey. She received her BA in English at NCA&TSU in 1995, MAED from the University of Phoenix in Curriculum Instruction in 2009, and her Doctorate of Education in Leadership and Management from Capella University in 2015. Dr. Johnson is a recently retired Major from the US ARMY where she specialized in Information Technology and Cyber Security.



Information Literacy Skills; Tour and Introduction to the Resources of the UNCG Jackson Library – Kathy Crowe; Jenny Dale; Keith Gorman; Karen Grigg; Samantha Harlow; Amy Harris Houk; Karlene Jennings; Kayla Johnson; Kathelene Smith; Juanita Thacker

"Fake, Fact or Somewhere in Between: Evaluating Online News Sources"

Librarians at the UNCG University Libraries work closely with students and community members of all ages to help them evaluate and select reliable information sources. With more than 1,000 instruction sessions each year on campus and in the community, including online tutorials and more than 800 online resource guides, UNCG University Libraries have been addressing "fake news" long before it was in the news! In this session, UNCG librarians will provide an interactive course for parents and teach them how to help their children find reliable information sources. Participants will also enjoy a guided tour of Jackson Library, highlighting its learning spaces, collections, support services, and cutting edge technology. Finally, librarians and archivists will also provide participants with a brief tour of the school's history and campus as they travel over to Jackson Library.

Walk or ride to the Jackson Library accompanied by: Kathelene Smith (Instructor/Outreach Archivist); Jennifer Motszko (Manuscript Archivist); and Stacey Krim (Curator of Performing Arts Collections).

Getting a view into your daughter's mind: Discussing how we can navigate social, cognitive, and emotional changes during late childhood and adolescence

Dr. Thanujeni (Jeni) Pathman received her undergraduate degree from McMaster University, and her M.A. and Ph.D. from the Psychology Department at Emory University. She completed postdoctoral training at the Center for Mind and Brain at the University of California, Davis, and she is now an Assistant Professor in the Psychology Department at UNCG. Her research interests are in cognitive development and developmental cognitive neuroscience. Dr. Pathman and her students study how the brain develops and how children learn and remember. She speaks with parent groups several times a year. She is very interested in initiatives that help females and underrepresented groups in the sciences.

Dahlia Ashford, Assistant Director, Academic Retention, NC A&T State University. Ms. Dahlia Ashford is a native of Moss Point, MS. She attended Mississippi State University for her undergraduate studies, where she earned a bachelor's degree in Biological Sciences in 2007. Also, she completed her master's degree in college student personnel services and administration at the University of Central Arkansas in 2009. She is passionate about student success and helping students find their purpose.

Q&A, post event survey – we appreciate your completing the online survey as your feedback assures that we continue to improve our STEM programs for girls.

STEM3 SESSIONS, ROOM ASSIGNMENTS & LOCATIONS

There will be twelve workshops with hands on learning activities in science, technology, engineering, and mathematics including special applied fields such as music and clinical medicine. Girls are assigned in groups to participate in three STEM workshops as well as one of seven Savvy Skills activities.

ANIMATION WITH MIT'S SCRATCH – Sullivan 200
Ms. Aleah Brown and Mr. Rudolph Bedeley, UNCG

CHEMISTRY – Gluep Anyone? – Sullivan 221
Dr. Nadja Cech, UNCG

CLIMATE CHANGE: It's A Slippery Slope – Sullivan 222
Kirsten Trowbridge, UNCG

CLINICAL LABORATORY – Sullivan 215 and 217
Dr. George Harwell, WSSU

COSMETICS CHEMISTRY – Sullivan 349 and 355
Dr. Margaret Kanipes, NCA&T

DO YOU HEAR WHAT I HEAR? – Sullivan 227
Dr. Rebecca MacLeod, UNCG

INTERNET OF THINGS – Sullivan 201
Ms. Sahana Giridharan and Ms. Christa Simaan

NANOBUS – Sullivan First Floor Syngenta Lobby
Dr. Jim Ryan, JSNN

NANOSCIENCE AND NANOENGINEERING – Exploring nanoscale properties
Sullivan 233
Ms. Komal Garde

ROBOTICS – Sullivan 203 and Second Floor Lobby
FIRST Robotics Flying Playtpi

STRAWBERRY DNA – Sullivan 216
Ms. Peggie Lewis Joyce, Guilford County Extension 4-H

TOTAL SOLAR ECLIPSE - Preparing for August 21 **-** Sullivan 218
Ms. Christi Whitworth, PARI

SAVVY SKILLS SESSIONS, ROOM ASSIGNMENTS & LOCATIONS

Girls will continue in their groups and will be assigned to ONE of the following sessions.

CHICKS, CHAT AND CHANGE – Sullivan 203
Theresa Anile and Ashleigh McFarlin, Zuraw Financial Advisors

CYBER SECURITY – Sullivan 200
Linda Cohen, Forsyth Technical Community College

I CHOOSE TO LEAD - Sullivan 218
Joy Nelson-Thomas, Executive Director/Founder
LEAD Girls of NC

INTERVIEWING SKILLS – Sullivan 3rd Floor Lobby
Jasimine Felder, president, Triad Association of Black Journalists

LEADERSHIP 101 – Sullivan 349 and 355
Anna Hoy, Greensboro Youth Council

SAY YES – Sullivan 201
Kinsley Fraser, Jessica Twitchell

TEAM BUILDING – Sullivan 4th Floor Lobby
Matthew Fisher and Barry Barber

SCHEDULE FOR GIRLS

Time	Activity	Location
7:45 to 8:30	Check-in; girls will receive T-shirts, Totes, Name Tags. Please wear your T-shirts and name tags at all times. Breakfast biscuits and fruit juice or water.	Syngenta Lobby
8:30 to 9:00	Opening plenary session; Welcome and Key Note Girls will be assigned to their groups and dismissed for their program at 9 AM	Sullivan 101
9:10 to 10:20	STEM 1 proceed with your group to your first session	see page 7 for location
10:30 to 11:40	STEM 2 proceed with your group to your second session	see page 7 for location
11:45 to 12:15	Lunch – proceed to the 3rd or 4th floor lobby as assigned	
12:20 to 1:30	STEM 3 proceed with your group to your third session	see page 7 for location
1:40 to 2:40	Savvy Skills proceed with your group to your assigned Savvy Skills session	see page 8 for location
2:40 to 2:50	Complete post TTS survey and receive a RAFFLE TICKET for the door prize drawings	Remain in the Savvy Skills location
3:00 to 3:30	Closing Ceremony	Sullivan 101
	!!CONGRATULATIONS!!	

STEM3 SESSIONS

ANIMATION WITH MIT'S SCRATCH

Who doesn't love cartoons? Animation is the term used to describe the work of the programmers who create movement on the movie or computer screen.

Animation is everywhere! And you can do animation using tools, or programs, that are available for FREE.

Scratch is a simple programming system, designed so that it's easy to create animations and simple games. You're not going to use it to calculate the 10 billionth digit of pi, or to write a very involved game like Halo, but it allows you to do some really interesting things and share them easily. You can browse the ***Scratch*** website and look under "Featured Projects" to find programs that other students have created.

Scratch is designed especially for ages 8 to 16, but it is used by people of all ages. Millions of people are creating Scratch projects in a wide variety of settings including homes, schools, museums, libraries and community centers.

Aleah Gennise Brown, shown here with her mother, Denise Brown, is a student at North Guilford High School. Ms. Brown aspires for a career in digital media. Ms. Brown is session leader for MIT Scratch Animation, a roll that she has performed since 2015 at IT is for Girls summer program at UNCG. In addition to her studies, she has attended Triad Tech Savvy, IT is for Girls, and other programs that have given her opportunities and resulted in an impressive list of recognitions:

- Career Technical Education "Winner's Circle" Award-Weaver Academy 01/2017
- National Center for Women and Information Tech.-State Runner-up 05/2016
- National Beta Honor Society 09/2016-Present
- National Technical Honor Society 03/2016-Present

Ms. Brown will be assisted by Mr. Rudolph Bedeley, a Doctoral candidate at UNCG.

CHEMISTRY – Gluep Anyone?

This hands-on workshop will give students the opportunity to learn about a common class of chemical compounds called polymers. Students will work in pairs in a chemistry lab and synthesize polymers from different starting materials. We will also use commercially manufactured polymers and perform tests to compare the properties of those materials.

What are Polymers? Many of the materials we use every day are plastics, which are made of large molecules that are similar in structure to a chain. You may know that molecules are made of atoms that are bonded together. So polymers are a special class of molecules. The properties of polymers depend on the atoms that make up the monomers which join together to make the polymer.

Dr. Cech earned a BS degree in chemistry from Southern Oregon University at the age of 19. This degree was funded in part by a large crop of the plant medicine *Echinacea*, which she helped to cultivate on her family's organic farm. In 2001, Dr. Cech was awarded her PhD in Analytical Chemistry from the University of New Mexico, where she worked under the direction of Dr. Chris Enke, co-inventor of the triple quadrupole mass spectrometer. Dr. Cech's initial research efforts were focused on fundamental studies of electrospray ionization mass spectrometry, and her review on this topic is one of the most widely reference in this field. When she joined the faculty at the University of North Carolina Greensboro in 2001, Dr. Cech was excited to apply her theoretical studies of mass spectrometry to her long-dormant interest in medicinal plants. She currently supervises a dynamic group of 12 undergraduates, graduate students, and post-doctoral research associates. Dr. Cech has been recognized for both her teaching (with the 2008 University of North Carolina Greensboro College Teaching Award) and her research (with the 2011 University of North Carolina Greensboro Junior Research Excellence Award) and has published 34 peer-reviewed papers.

CLIMATE CHANGE: It's A Slippery Slope

We live on a warming planet. In this class, participants will explore some of the mechanisms and consequences of the warming of ocean water and sea ice. They will be challenged to understand measurements of temperature and its effect on melting ice. We will also discuss the big picture of our current climate, not only the physical world, but the social climate as well: environmental awareness and the connectedness of individual decisions to the future of our planet and its inhabitants.

After making introductions of speakers and students, we will introduce environmental science and awareness and the interconnectedness of it all. The majority of time will be spent focused on climate change and a hands-on activity taking measurements in a simple model of melting sea ice.

Participants will set up the experiment by weighing and measuring components of the system and then they will measure temperature as the system undergoes warming. All measurements (volume, mass, temperature) will be in metric units. Groups will graph both individual results and class average results.

We will also discuss how scientific findings are shared to advance knowledge and work toward a healthier and more sustainable future. A major goal of the workshop is to inspire students to increase awareness of environmental issues and sustainability through social media, interpersonal relations, and lifestyle choices.

Kirsten Trowbridge is a PhD candidate in Environmental Health Science at UNCG. She holds a BS in Biochemistry from Queens University of Charlotte and an MS in Genetics and Molecular Biology from UNC Chapel Hill. She has held instructor positions at Bennett College and Elon University. Ms. Trowbridge has published several articles resulting from her research results. Of interest to us is the fact that she participated in a Make-a-Difference Service project with SETAC, Ramboll Environ, and Friends of Great Salt Lake, Salt Lake City, UT, November 2016. We are very proud to have future Dr. Trowbridge join the Triad Tech Savvy faculty in 2017.

CLINICAL LABORATORY

The Clinical Laboratory Science Department at Winston-Salem State University is bringing its Youth Exploring Health Sciences (YEHS!) program to Tech Savvy. The hands-on activities are designed to introduce health science fields. Students will use non-biological lab specimens and point-of-care diagnostic reagents and meters. Come and experience the opportunities.

Dr. George Harwell, Ed.D., MT (ASCP)SC, CLS, Chair and Associate Professor at The School of Health Sciences Department of Clinical Laboratory Science at Winston Salem State University. Since 2009, Dr. Harwell has held the position of Associate Professor and Chairman of the Department of Clinical Laboratory Science at Winston-Salem State University. This highly acclaimed program, unique in our region and in the state of North Carolina, is accredited by the National Accrediting Agency for Clinical Laboratory Sciences(NAACLS), and offers several pathways to degrees and careers in medical technology. As a board certified medical technologist, clinical laboratory scientist, and specialist in chemistry, Dr. Harwell has both practical and academic preparation. He earned his bachelor's degree in biology and a master's of science in medical technology from the University of Southern Mississippi. He holds a Doctor of Education from Texas Tech University, as well as numerous continuing education programs in clinical chemistry and education.

COSMETICS CHEMISTRY

Cosmetics companies employ teams of specialized scientists to develop and test each new line of makeup, perfume, lotion, or soap. This science project lets students be a cosmetics chemist for the day, by creating their own bath bomb. The goals of this hands-on activity will allow the participants to understand the chemistry behind why a bath bomb fizzes in water using a short list of ingredients, that they can follow up with some creative cosmetics science of their own in their kitchens at home!

Dr. Margaret Kanipes, Professor of Chemistry, is acclaimed for teaching Biochemistry to inspire students to success. She earned her Bachelor of Science in Chemistry from North Carolina A&T State University and her Ph.D. in Biological Sciences from Carnegie Mellon University, Pittsburgh, Pennsylvania. She did postdoctoral training in the Department of Biochemistry at Duke University, Durham, North Carolina. She currently is serving as the Director for the STEM Center of Excellence for Active Learning. Dr. Kanipes has several publications in refereed journals, which also include her current research efforts in biochemical food-borne pathogen detection and science education. She has secured an external portfolio of over 6.7 million dollars in grants as a principal investigator or co-principal investigator.

DO YOU HEAR WHAT I HEAR?

How do humans hear and process music? The science of music is fascinating and includes physics, acoustics, perception and cognition. Come to our interactive music and science museum to explore the anatomy of the ear, how sound waves travel, and how our minds process music. Participants will be placed in teams and will navigate three music and science learning stations to uncover the mystery of sound and the inner workings of our mind.

Students will experience 3 learning stations devoted to aspects of hearing, perceiving, and processing music. Station 1 will include an interactive model that allows the students to explore the anatomy of the human ear. Station 2 will teach the fundamentals of how sound travels. Station 3 will explore how the mind perceives music as sound, including musical illusions. Each station will take about 10 minutes. The end of the session will allow students to review and share in what they have learned.

Dr. Rebecca MacLeod is Associate Professor of Music Education at the University of North Carolina in Greensboro, where she specializes in string pedagogy. Prior to joining the faculty at UNCG, she was the assistant artistic director and conductor of the Tallahassee Symphony Youth Chamber Orchestra and Philharmonia Orchestra in Tallahassee, Florida. Her research on working with underserved populations, vibrato technique, music teacher education, and music perception has been presented at the International Conference of Music Perception and Cognition, Music Educators National Conference, National Association for Music Education National Conference, American String Teachers National Conference, Midwest Band and Orchestra Clinic, Society for Music Teacher Education, and several music educators' state conferences. Dr. MacLeod received her undergraduate degree from Duquesne University in Pittsburgh, Pennsylvania and her MME and PhD from Florida State University in Tallahassee, Florida. She continues to serve on the faculty of the high school summer music camps at Florida State University and the University of North Carolina at Greensboro. She is a frequent guest conductor and clinician throughout the United States.

INTERNET OF THINGS

The Internet of Things is a world of sensors – a network of objects, from your fridge to your phone that can communicate with one another through sensors connected to the Internet.
In this session, the students will

- Learn the basics of a circuit through easy, gun, magnetic circuits called LittleBits!
- Be exposed to basic Internet of Things concepts through a type of Little Bit called the CloudBit
- Learn unique applications of IoT through the use of sites such as IFTTT(If Then, Than That)

Sahana Girdharan (**IoT Session Lead**) is currently a junior at The Early College at Guilford. Her interest was first sparked in the field of computing when she was a camper at the IT is for Girls Summer Camp in 2013. She is a three-time award recipient of the National Center for Women & Information Technology's State Aspirations Award. The award for Aspirations in Computing honors high school women who are active and interested in computing and technology, and encourages them to pursue their passions. For the past two years, she has been the Primary Program Leader, who, along with Dr. Lakshmi Iyer, has successfully received the AspireIT Grant to run the We Make IT Summer Camp. She is excited to introduce Virtual Reality to her Internet of Things session this year! Sahana's assistant at Triad Tech Savvy is Christa Simaan.

Christa Simaan (IoT Assistant) is currently a freshman at Northwest Guilford High School. She has been involved in Tech Savvy for about two years as a participant, and has absolutely loved her experience with the workshop. She won first place in the Internet of Things session in the 2015 We Make IT Camp, and this sparked her interest for IT and computing. She has been a First Lego League (FLL) mentor and enjoys working with young girls to inspire them to contribute to STEM fields.

NANOBUS

The Nano Bus from the Joint School of Nanoscience and Nanoengineering will deliver several fun hands-on science and engineering demonstrations to Tech Savvy. Girls will work in small groups to explore the science of nanotechnology. Activities will include: Pendulum Wave Generator demonstration and Lenz's Law using a magnet which falls more slowly in a copper pipe than outside the pipe. The bus is designed to carry appropriately trained and prepared university students and their mentors to designated locations in the community in an after school setting where they will set up their experiments and demonstrations for the local students (and others) to enjoy and learn. The university students providing the demonstrations will act as role models to the children and provide encouragement to students who have not considered college or have an interest in science.

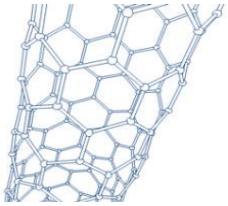
James G. Ryan is the founding dean of the Joint School of Nanoscience and Nanoengineering (JSNN) of North Carolina A&T State University and The University of North Carolina at Greensboro. His primary responsibilities encompass academic and administrative leadership of JSNN as well as the development of strategic partnerships with industry and government organizations.

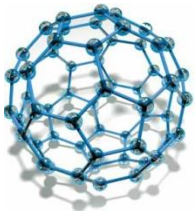
The following students will be assisting Dr. Ryan for the Nanobus session:

Denize Dmitrius, Snehal Shan, and Ryan Yarbrough.

NANOSCIENCE & NANOENGINEERING EXPLORATION

Exploring at the Nanoscale





Nanotechnology is the study and use of small structures within the range of 1-100 nanometers in size. A nanometer is as small as 1 billionth of a meter, that is, if you could divide 1 meter in a billion parts then one of them would measure 1 nanometer. Or you can look at it as, a single human hair is 80,000 nanometers wide.

Structures at a nanoscale have novel properties and functions due to the arrangement of their atoms. For example, elemental gold as we are used to seeing is a nice yellowish brown in color- the color we know as 'gold'. However, if you had only 100 gold atoms in a particle, then it would appear RED! Color is just one property (optical) that is different at nanoscale. Other properties like flexibility, strength, conductivity, surface area are often different at nanoscale. The smaller something is the larger its surface area is compared to its volume. The larger surface area to volume ratio opens up many possibilities for creating new materials and facilitating chemical processes.

Nanoscale science is an exciting area of current research that can be applied in technology, medicine, composite materials and many other fields. Nanotechnology has a huge impact on our daily lives; you just have to look closely!

Komal Garde is an expert in nano-device fabrication in a cleanroom environment. She has extensively studied the uptake of nanoparticles and their in vitro cytotoxicity. Komal is currently a PhD candidate in the Department of Nanoengineering at North Carolina A&T State University.

ROBOTICS

The Flying Platypi is a community based high school robotics team that participates in the FIRST Robotics Challenge (FRC). In our nine years as a team, we are open to all area high school students who have a passion for hands on learning of various STEM skills and the dedication it takes to be part of an award winning FRC team. We meet year round and engage in a number of outreach projects both locally and at the national level. We also have relationships with a number of local companies who supply us with funding and mentors.

As part of FIRST team, student members learn a variety of STEM skills such as CAD design, manufacturing, electrical writing and programming, all needed to build larger robots. Students also learn presentation skills and leadership skills as well as how to effectively work and problem solve as part of a group.

Our sessions will be run by student team members and alumni with a passion to share what they have learned with younger students. Over 90 percent of our team members are pursuing STEM based careers.

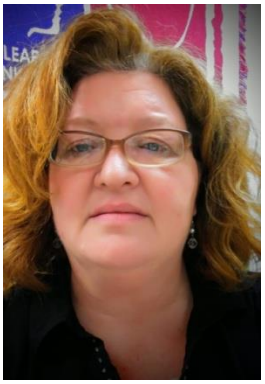
The student-led demonstrations will give younger students the chance to build robots with LEGO bricks, participate in a team building robot brainstorming exercise and see what is involved in programming a larger robot.

More information is available at www.lego.com ; https://www.firstinspires.org/; www.team2655.org

STRAWBERRY DNA

DNA contains the biological make-up that gives each of us our uniqueness. It was Swiss biochemist Frederich Miescher who first observed DNA. During this workshop, you will complete an experiment to isolate, extract, and observe DNA from a strawberry.

Background: The long, thick fibers of DNA store the information for the functioning of the chemistry of life. DNA is present in every cell of plants and animals. The DNA found in strawberry cells can be extracted using common, everyday materials. We will use an extraction buffer containing salt, to break up protein chains that bind around the nucleic acids, and dish soap to dissolve the lipid (fat) part of the strawberry cell wall and nuclear membrane. This extraction buffer will help provide us access to the DNA inside the cells.



Peggie Lewis Joyce graduated from UNCG with her Bachelor's degree in Biology. She received her Master's degree from NC State University.
Peggie works for NC State University with the 4-H Youth Development program in Guilford County.

As the 4-H Agent, Peggie connects youth 5-18 years old with experiential learning opportunities so they can develop leadership, citizenship and community service skills. She has worked with the NCSU General Hugh Shelton Leadership summer challenge program as an instructor for nine years. This program provides positive learning experiences to high school students as they focus on The General's Five Pillars of Leadership including: Modeling the Way, Inspiring a Shared Vision, Challenging the Process, Enabling Others to Act, and Encouraging the Heart.

"I love working with 4-H because it helps young people find their voice!"

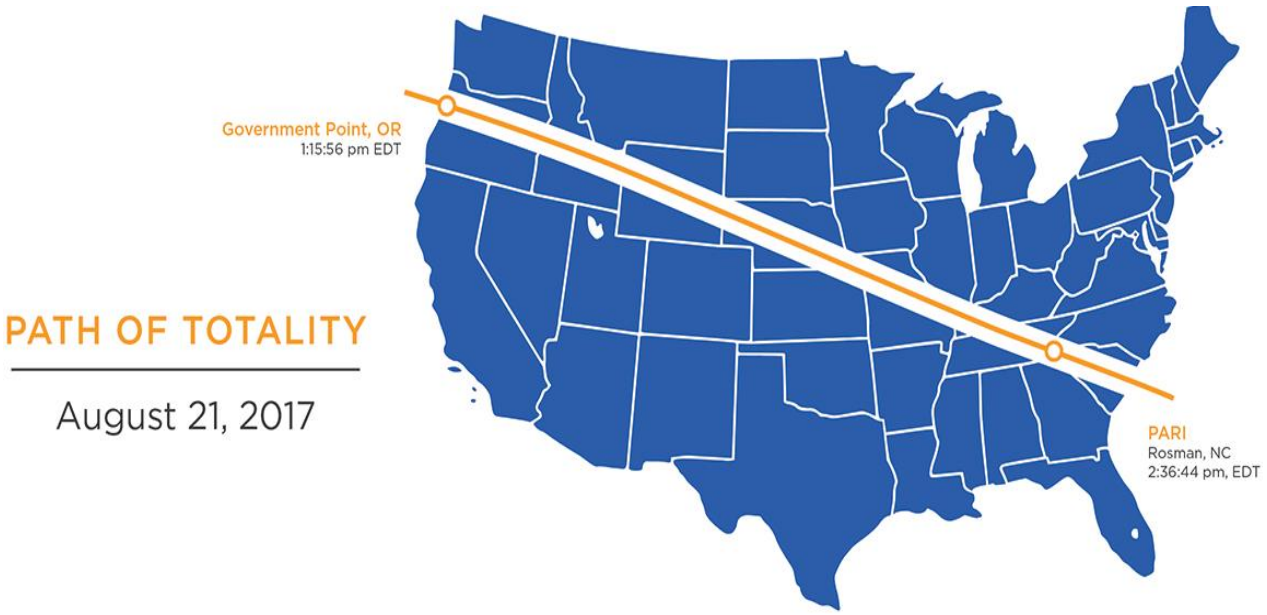
TOTAL SOLAR ECLIPSE OF 2017 – How to become a safe viewing leader

How do Eclipses Happen?

North Carolina will experience a total solar eclipse on August 21, 2017. Girls will find the exact time of the eclipse in the Greensboro area and will construct a safe observing projector. Working in teams we will make a community plan and prepare an observation record sheet. We will practice safe observing techniques and plan to help our communities witness a great moment in science. Students will use the US Naval Observatory eclipse calculator online http://astro.ukho.gov.uk/eclbin/query_usno.cgi

Class Description:
We will explore how an eclipse can occur during the lunar cycle of orbiting the Earth. Using a physical model, we will show how the phases of the Moon occur. We will also discover the exact circumstances that allow an eclipse to occur.

Learning Objectives:
The students will model the motion and phases of the Moon accurately in direction and timing. The students will model a solar and lunar eclipse to determine the timing and locations in the lunar orbit that eclipses can occur.



SAVVY SKILLS SESSIONS

CHICKS, CHAT & CHANGE

This learning experience will help girls create a flexible and reliable budget that they will utilize moving forward. You will learn how to set financial goals, how to establish time frames for short and long terms goals, and how to track income and expenses so that you become accustomed to reviewing and adjusting your budget.
Theresa Anile and Ashleigh McFarlin, Zuraw Financial Advisors

CYBER SECURITY

Alice in Cyberspace.

This is an interactive session where the girls will write a little program in the Alice programming language to teach them all about safety in cyberspace. They will learn some programming skills and get a lesson on what not to do on while on the web. Alice is free and can be downloaded from http://www.alice.org/index.php. The programming language was literally written to teach middle school girls how to program. It is fun and very interactive. My hope is that they will continue to use it to create little tutorials and even games they can put on YouTube.

Linda Cohen, Computer programming instructor at Forsyth Technical Community College, holds a Master's Degree in Computer Information Systems. With over 10 years experience in teaching programming, mobile apps and web design at Forsyth Tech Community College, she also has three years of experience as an Instructional Technology Facilitator in two Guilford middle schools. Ms. Cohen is a talented and innovative teacher who once developed a website called "The Geeky Computer Teacher" where the students could mine a database, play interactive

games and use websites that would help them learn. More recently, Linda has developed expertise in the important field of cyber security.

Forsyth Technical Community College hosts meeting of the Triad Information Systems Security Association, a not-for-profit, international organization of information security professionals and practitioners. It provides educational forums, publications, and peer interaction opportunities that enhance the knowledge, skill, and professional growth of its members.

The Triad of NC chapter provides a local resource for information security professionals to get together, learn new things, and develop relationships with others in the industry. If you are involved in information security, full or part time, or are simply interested in the subject, this organization is a great way to learn and grow.

I CHOOSE TO LEAD

LEAD Girls of NC is dedicated to providing the tools and resources that preteen girls must have to become productive citizens and active leaders in their community. LEAD encourages and mentors girls to aspire and achieve greatness academically, emotionally and creatively.

Lesson Objective: Learning how to improve interpersonal skill. This begins with self-improvement, as it is self-awareness and self-acceptance that helps us understand and relate well to others. The importance of having good self-esteem, to discuss different ways of feeling good. To create a tangible reminder of what makes each girl special at the 2017 Tech Savvy workshop.

"I feel it's our responsibility to be the change we want to see in our community, not just talk about it."

Joy Nelson-Thomas, Executive Director/Founder

INTERVIEWING SKILLS

The **Triad Association of Black Journalists (TABJ)** is a 501(c)(3) nonprofit organization that provides networking and professional development opportunities for African American journalists, encourages students of color to pursue media-related careers, and creates a dialogue with the Triad community to make sure our stories are being told well.

TABJ, founded in 2010, is an affiliate chapter of the **National Association of Black Journalists (NABJ)** that represents the interests of black journalists and media-related professionals in the Piedmont Triad region of North Carolina.

Jasimine Felder, president of TABJ, is a proud Elon University Alum where she graduated with a Bachelor of Arts degree in Broadcast Journalism. Go Phoenix! Some of her fondest memories at Elon were studying abroad in South Africa and going to the 2011 College Television Awards in Hollywood. Along with her Phoenix 14 News team, she accepted the 1st place award for "Best Newscast" from the Academy of Television Arts & Sciences Foundation. Jasmine loves to travel and spend time with family.

LEADERSHIP 101

What is real leadership? Join members of the Greensboro Youth Council to explore what it means to lead – in the classroom, with your friends, and in the community. Challenge what you think about who can be a leader. Join us as we learn new ways to think about what it takes to be an effective leader and how you express your own style of leadership. Members of the Greensboro Youth Council will challenge participants thinking on what it means to lead – in the classroom, in the community, and with your friends.

Anna Hoy, Greensboro Youth Council

Anna Hoy graduated cum laude from Vanderbilt University with her bachelor's degree in Human & Organizational Development and Child Studies. She received her Master of Public Administration with a concentration in Nonprofit Management from UNC Greensboro.

She is currently the Assistant Director of Youth Development for the City of Greensboro Parks and Recreation Department, where she facilitates teen leadership programs and leads staff efforts around summer camp program quality. Prior to her current role, Anna has worked for United Way and the YMCA. Anna is a 2013 Leadership Greensboro graduate and IMPACT Greensboro Change Agent.

Anna is most passionate about improving outcomes for youth. After teaching primary school in Uganda and leading a mentoring program in Nashville, Tennessee, she learned first-hand the role youth development plays in creating a strong democracy and a thriving economy.

SAY YES

After a brief overview of Say Yes Guilford, girls will work on goal setting and steps to take to be college ready! **Prizes will be given!**

Kinsley Fraser: **My First Generation Story**

Being a first generation college student was much like navigating through a dark room, stumbling along the way. Throughout the college search process, I had to figure out things on my

own, not because my parents didn't want to help me, but because they simply didn't know how. Although this was frustrating at the time, I am very appreciative of the challenges that made me a stronger person.

After months of deliberation, my college choice decision was solidified when I was awarded the University of North Carolina at Greensboro's (UNCG) Guarantee Scholarship. This program is specific to the university and was everything a first generation college student could ask for. Coming from an extremely small high school, the thought of college was intimidating; the Guarantee Program helped minimize these feelings by introducing us to a family of students from similar backgrounds. This program also provided wraparound support throughout my undergraduate journey, and I even worked as an office intern which opened the door for numerous opportunities. As a Guarantee Scholar, I was also given the opportunity to study abroad in Mexico and Costa Rica. These were life-changing experiences for which I will forever be grateful for.

Also during my time at UNCG, I had the opportunity to intern with Amazon. This 10-week experience in Charleston, Tennessee helped me grow in ways I never expected. I learned the importance of leading by example and managing an efficient team, along with many other skills that I use daily. At the end of my time there, I could feel the growth and was reminded of the importance of taking risks to experience new opportunities.

I am reminded everyday of the importance of being a first generation college student. We break barriers that most students do not face, which goes to show students similar to us that they can too.

TEAM BUILDING

UNCG's Maker Space is part of the Maker Movement, which can inspire more young people to excel in STEM (science, technology, engineering and math) subjects, connect their learning to real-world, personally meaningful problems, and reverse the decline in student engagement. Team building results in inclusion and unleashes creativity.

Solve the puzzles, find the keys, and open the box before the time runs out! Join this immersive educational adventure. Solve a series of mysterious puzzles using critical thinking, logic, creativity, communication, and collaboration. Unlock the STEMystery!

Students will work together to strengthen skills such as problem-solving, critical thinking, logic, creativity, communication, and collaboration in a fun and exciting way.

Matthew Fisher works in the Dean's Office of the School of Education at UNCG. Barry Barber works in the Teachers Academy at UNCG School of Education. They are the innovative, creative, unconventional, and profoundly talented duo behind UNCG's Maker Space. Matthew has traveled a long and winding road to arrive at the School of Education. His experiences as a paperboy, Denny's dishwasher, marine biologist, horseshoe crab bleeder, graphic designer, middle school science teacher, science book editor, polymer clay artist, and summer camp director have prepared him well to guide the students of the School of Education through magically delicious experiences in the SELF Design Studio. He currently lives in Greensboro, NC with his wife, two daughters, and one cat. And he likes eating pepperoni pizza. A lot.

CLOSING CEREMONY

3:00–3:30 P.M., Sullivan 101

Moderator – Laura Tew, AAUW Greensboro, Triad Tech Savvy Co-chair

Mrs. Laura B. Tew has degrees in chemistry, marketing, and non-profit management. She held technical and management positions in chemical manufacturing for over thirty-five years. After retiring in Greensboro in 2009, Mrs. Tew pursued several interests including master gardening, tax counseling, and women's advocacy. She is public policy chair of AAUW Greensboro Branch. She is committed to STEM education and careers. She believes that her personal experience and success are due in large part to influential mentors who encouraged her along the way. With Triad Tech Savvy, she is passing that tradition along to future generations.

Keynote Speaker - Ms. Christi Whitworth
August 21, 2017 Total Solar Eclipse

Christi Whitworth is the education director at the Pisgah Astronomical Research Institute (PARI) in Rosman, North Carolina, and has won awards for her work on various projects focusing on the education of girls in science, technology, engineering and mathematics fields collectively known as STEM. She is a 2013 alumna of NITARP, the NASA/IPAC Teacher Archive Research Program, and received the "Women Who Make a Difference Award" from the American Association of University Women.

Summary & upcoming events
Dr. Lakshmi S. Iyer – UNCG, Triad Tech Savvy Co-chair

Raffle prize presentations

MEET THE COMMITTEE

We are very grateful to all of the presenters, speakers, and moderators whose biographies are featured on the previous pages of our program booklet. In addition, there are dozens of volunteers both behind the scenes and throughout Sullivan Science taking care of the numerous details of Triad Tech Savvy. We would like you to especially know these committee members who have worked for months to bring this event to UNCG.

(Names are in alphabetical order by last name)

Dr. Michael Adamson is a retired biochemist and environmental engineering consultant. He taught on the faculty of Emory University and conducted research in enzymology and innate immune defense factors at UAB, the University of Louisville, and Umeå Universitet, Sweden. Michael believes that Tech Savvy addresses an important need for exposure to the ideas and methods of science at a critical moment in the lives of the young women it serves.

Brigid A. Appiah Otoo is a Doctoral Student in Information Systems at the Bryan School of Business and Economics, UNCG. Prior to joining UNCG, she worked as a Lecturer of Operations and Project Management at the GIMPA Business School, Ghana. Brigid has about six years' practical experience in Management Consulting. This was at State of Flux Limited, London (2008 - 2011) and Ernst & Young, Accra (2012-2013). During her consulting career, she undertook several operational performance improvement projects in various organizations, industries and sectors in Europe and Africa. Brigid is interested in the role of IT in Healthcare Operations Management.

Rudolph T. Bedeley (Scratch) is currently a Ph.D. candidate in the Department of Information Systems and Supply Chain Management (ISSCM) at the University of North Carolina at Greensboro (UNCG). Mr. Bedeley is a passionate teacher who has taught a variety of business and technology related causes such as Business Analytics, Database Systems and Web Design to undergraduate business majors at UNCG. Besides teaching, Mr. Bedeley also does research in healthcare analytics under the supervision of Dr. Lakshmi Iyer. He will be joining the Isenberg School of Management at the University of Massachusetts, Amherst come fall 2017 as a Tenure Track faculty member.

Everlena Diggs, a native of Roxboro, NC, has resided in Greensboro for over fifty years. She completed her undergraduate studies at Fayetteville State University and received her Master's Degree from North Carolina Agricultural and Technical State University in Social Studies. Later, she added to her educator qualification with certification to teach both math and science. We are lucky to have Mrs. Diggs, a math and science educator for 34 years in the Guilford County School system, on the Triad Tech Savvy team. Everlena has held several leadership positions in educational organizations, and she is currently president of the Ever-Achieving Retired Teachers Club. As a member of the local AAUW Branch, she has served as president, vice-president, treasurer and membership chair. She enjoys Bible study, reading, baking, traveling in other countries and playing pinochle. With her husband, retired minister William Diggs, she has three children.

Dawn Fant Fluerizard From a young age Dawn was encouraged and inspired to pursue the sciences by her family, particularly her mother. Dawn attended one of the 3 Science High Schools in New York City where she was able to hone and develop her love for the sciences. She received her Bachelor's degree in Chemistry from The Lincoln University in Pennsylvania and her Master's Degree in Chemistry from North Carolina Agricultural and Technical State University in Greensboro, NC. Upon graduation Dawn joined the workforce and began her career in the Semiconductor industry which she has been working in for 20 years. Dawn has been with Amkor Technology for the past 13 years in various roles that latest being Product Manager/Product Engineer. She is a wife and mother who enjoys working with young people in her spare time to expose and encourage them to love and pursue STEM fields.

Stephanie Ghotbi-Taheri is an active AAUW Greensboro Branch Board Member and is currently serving as Treasurer. She is passionate about Science, Technology, Engineering and Math (STEM). She has been a parent

participant and volunteer for several years with the Triad Tech Savvy Program at the University of North Carolina at Greensboro (UNCG) in partnership with AAUW Greensboro. Stephanie is a facilitator for the Piedmont Science Fair for home-schoolers at High Point University. She is an active volunteer in numerous capacities with the FIRST LEGO League (FLL) for ages 6-9 (Grades K-3), FIRST Tech Challenge (FTC) for ages 12-18 (Grades 7-12), and FIRST Robotics Competition for ages 14-18 (Grades 9-12) on the local, state, national, and international levels. Stephanie is currently serving on the PTSA Executive Board at The STEM Early College at North Carolina Agricultural and Technical State University (NCA&T)-Guilford County Schools.

Dr. Lakshmi Iyer (Program Chair) is Director of Graduate Programs in the Information Systems and Supply Chain Management Department in the Bryan School of Business and Economics at UNCG. She started the "Women in IT" initiatives in 2009 and has been serving as the director of "IT is for Girls" program at UNCG. This outreach program aims to increase middle and high-school awareness about education and career path in technology areas. Dr. Iyer has successfully organized day-long and week-long camps for students with several hands-on computing activities. She has also established relationships with area organizations that enabled field trips so participants interact with STEM&M professionals and learn about computing careers and use of technology in various STEM&M areas. In addition, over the past 5 years, she has helped raise $150,000 in grants and gifts for offering outreach programs for middle and high-school girls. She has a doctorate in a technology related area and has over 17 years of teaching experience. She is an AAUW Member, STEM programs' coordinator for AAUW Greensboro Branch, and serves as a co-chair for the Association of Information Systems Task Force for Women in IS.

Dr. Johanna Mazlo is a Senior Quality Assurance Auditor for Syngenta US in Research Triangle Park. She earned her PhD in Chemistry with a concentration in biochemistry from the University of Nebraska and then relocated to join the faculty at UNCG. She discovered her love of teaching, especially her talent for developing innovative strategies to assist non-majors in mastering applied science and in preparing for future careers. Johanna continues to support STEM education for girls and to advocate for women in science careers as a member of AAUW Greensboro.

G. Elaine Morehead
A lifetime Girl Scout and recipient of the highest adult honor, the Girl Scout THANKS Badge, Elaine Morehead is a woman of many "firsts." She was the first of six children to graduate from North West High School, and the first in her family to graduate from college. She earned her degree in Child Development from NCA&TSU and, later, an advanced degree in Adult Education. She started her career at the Guilford County Agricultural Extension Service in the Child Parent Community Program, moved on to become a Prevention Education Specialist in the Greensboro Drug Action Counsel, and found her way to the Tarheel Triad Girl Scouts Council. Retiring for the "first" time in 2009, Elaine joined the Early Childhood Center for a couple of years and now teaches part-time at the Friends Playhouse in Whitsitt and at the Greensboro Islamic Academy. Elaine has been an active and valued member of AAUW Greensboro for many years and is passionate in everything she does.

Dr. Cristina Moreira is originally from Brazil and is currently the Chair of the College/University Liaison Committee for AAUW Greensboro. Until July 2016 she served as Associate Professor of Biology at Bennett College where she taught Genetics, Molecular Biology, Botany and Evolution and also acted as the Project Director of the VA-NC Louis Stokes Alliance for Minority Participation (LSAMP) for this institution. She was also the coordinator of the "Sisters& Brothers - in Science" initiative which unites Bennett's LSAMP scholars and their mentees at the Early/Middle College at Bennett and at Aycock Middle School. Dr. Moreira attended the University of Florida in Gainesville where she received her Ph.D. in Horticultural Sciences working with citrus mitochondria inheritance. Previously she attended the University of Sao Paulo in Brazil, where she received a M.S. and a B.S. in Agronomy.
Mrs. Mary Fran Schickedantz has been an involved member of AAUW Greensboro since the early 80's. She has served as Treasurer in the local branch and the state AAUW as well as President of both. She is a retired Administrative Secretary for a local Swim & Tennis Club for 30 years keeping financial records and collecting

membership dues. She has been a treasurer for the Greensboro Symphony Guild which continually held fundraisers. She is proficient with e-mail, Excel spreadsheets, QuickBooks and Quicken software as well. Mary Fran has middle and high school granddaughters and feels comfortable working with and encouraging girls at this age level. She has been a prime mover of technical awareness programs with the branch since 2008. Also, she has worked closely with Dr. Iyer from 2009 to the present to be a liaison between her excellent planning and the branch in its commitment to further STEM&M education/awareness in Greensboro.

Flossie Smith, an active and valued member of AAUW, continues to educate in retirement. Mrs. Smith received her Masters of Education with a concentration in special education from North Carolina Central University. She taught K-12 home bound students in Guilford County Schools until retirement in 2000. After retirement, she continued to educate part time including tutoring at the Middle College at Bennett. Full retirement for Flossie means being an education facilitator in Community Bible Study and leading the new members' class at East White Oak Baptist Church. In her spare time, Flossie has travelled to five continents and is an avid pinochle player.

Jane Terwillegar, an AAUW member since 1994, has served as President, Northern Palm Beach County Branch AAUW, and President, Charitable Foundation for Northern Palm Beach County Branch AAUW. She retired as Director of Library Media Services in Palm Beach County Schools and also retired as Library Director of Lake Park Public Library, Lake Park, FL. While not professionally involved with science and technology, Mrs. Terwillegar is an experienced educator and administrator, experienced with planning workshops for students and adults, project planning, budgeting, project leadership, grant writing, grant evaluation, fund raising and teaching. Mrs. Terwillegar has served nationally as an elected member of Council, American Library Association (ALA) and on the Executive Board of the American Association of School Librarians (AASL). She has also served as President of the Florida Association of Library Media Educators (FAME). She co-chaired marketing, outreach, and hospitality for Tech-Savvy 2014, 2015, and 2016. Her next role will be as co-president of AAUW North Carolina.

Mrs. Laura B. Tew has degrees in chemistry, marketing, and non-profit management. She held technical and management positions in chemical manufacturing for over thirty-five years. After retiring in Greensboro in 2009, Mrs. Tew pursued several interests including master gardening, tax counseling, and women's advocacy. She is public policy chair of AAUW Greensboro Branch. She is committed to STEM education and careers. She believes that her personal experience and success are due in large part to influential mentors who encouraged her along the way. With Triad Tech Savvy, she is passing that tradition along to future generations.

NOTE: We apologize for any omissions or typos in the booklet.

Triad Tech Savvy Planning Committee and Volunteers

Lakshmi Iyer, Co-chair
Laura Tew, Co-chair
Michael Adamson, technology and science advisor
Everlena Diggs, check-in
Dawn Fluerizard, presenter and speaker liaison
Libby Haile, health sciences
G. Elaine Morehead, food and hospitality
Johanna Mazlo, procurement and UNCG liaison
Cristina Moreira, registration
Mary Fran Schickedantz, volunteers and marketing
Flossie Smith, food and hospitality
Stephanie Ghotbi-Taheri, treasurer
Jane Terwillegar, marketing and presenter liaison

Michael Adamson	Deborah Goddard	Lena Murrill-Chapman
Theresa Anile - DeAveiro	Keith Gorman	Cassy Naphen
Brigid Appiah Otoo	Karen Grigg	Joy Nelson-Thomas
Dahlia Ashford	Libby Haile	Danielle Nicks
Barry Barber	Samantha Harlow	Jeni Pathman
Rudolph Bedeley	Amy Harris Houk	Alexys Riddick
Eliana Berger	Bailey Harvey	Yamuna Roach
Simone Blaylock	George Harwell	Jim Ryan
Lauren Britt	Veronique Hooper	Cassandra Sam
Aleah Brown	Anna Hoy	Mary Fran Schickedantz
Denise Brown	Rodna Hurewitz	Ann Schwabeland
Jason Caldwell	Amelia Irvin	Maggie Seye
Lillian Carden	Kelly Irvin	Snehal Shah
Barbara Carter	Lakshmi Iyer	Christa Simaan
Nadja Cech	Jeanetta Jackson	Ayanna Sims
Kerry Charles	Karlene Jennings	Flossie Smith
Danielle Chasten	Mary – Margaret Johnson	Kathelene Smith
LInda Cohen	Kayla Johnson	Cindy Stephens
Briana Connor	Tiffany Jones	Jamira Stephenson
Brittany Cowan	Peggie Lewis Joyce	Makayla Surles
Kathryn Crowe	Margaret Kanipes	Mary Swantek
Jenny Dale	Stacey Krim	Persia Taheri
Jennifer Davis	Angela Larsen	Jane Terwillegar
Dmitrius Denize	Omari Lewis	Laura Tew
Dilip Dias	Dianne Lytle	Juanita Thacker
Everlena Diggs	Rebecca MacLeod	Joy Thompson
Janie Dominique	Tanya Malloy	Jean Toxen
Michael Fisher	Jo Mazlo	Kirsten Trowbridge
Dawn Fleurizard	Ashleigh McFarlin	Anna Tschiegg
Kinsley Fraser	Sue Metz	Jissica Twitchell
Komal Garde	G. Elaine Morehead	Iris Waggstaff
Stephanie Ghotbi Taheri	Cristina Moreira	Sakilae White
Sahana Giridharan	Jennifer Motszko	Christi Whitworth
		Aaliyah Wynn
		Ryan Yarbrough

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Triad Tech Savvy
Follow us on Twitter! @Triadtechsavvy
If you already have a Twitter account (or access via family and friends), just do a search on **TriadTechSavvy**. You will see our recent tweets and our photos on our home page. "Follow" us and you can view others who are already following us, including @aauwnc
If you do not have a twitter account and would like to try it out, just go to www.twitter.com and open a new account using your unique email address. It takes just moments, and soon you will be a part of social media!

Women in Information Technology (WIIT) @ UNCG
wiit.uncg.edu
www.facebook.com/wemakeIT

NOTES

AREA MAP

JACKSON LIBRARY
MAIN DINING HALL
(POST OFFICE/COPY CENTER)
NORTH DRIVE
(CAMPUS STREET)
REYNOLDS RESIDENCE HALL
GRAY HOME MANAGEMENT
POLICE
(STATUE)
SOUTH SPENCER RESIDENCE HALL
NORTH SPENCER RESIDENCE HALL
GUILFORD RESIDENCE HALL
32
Evening Shuttle
COLLEGE AVENUE
MARY FOUST RESIDENCE HALL
CONE RESIDENCE HALL
MUSIC BUILDING
WEST MARKET STREET
(CITY STREET)
PETTY SCIENCE BUILDING
18
STONE BUILDING
15
MOORE NURSING BUILDING
NORTH DRIVE CHILD CARE
NORTH DRIVE
McIVER STREET PARKING DECK
(PAY BY HOUR VISITOR PARKING AVAILABLE)
Evening Shuttle
(CITY STREET)
McIVER STREET
WALKER AVENUE
(CITY STREET)
EBERHART LIFE SCIENCES
Sullivan Science Building
14
CARR STREET
(CITY STREET)
127
119
117
A
A
A
Park Here
TATE STREET
(CITY STREET)
TATE STREET

2017 Tech Savvy Sites

California	April 8, 2017
California	May 2017
Connecticut	March 4, 2017
Florida	May 13, 2017
Hawaii	April 22, 2017
Illinois	March 25, 2017
Michigan	April 29, 2017
Minnesota	January 28, 2017
Mississippi	March 25, 2017
Nebraska	April 29, 2017
New York	April 1, 2017
North Carolina	April 1, 2017
North Dakota	March 7, 2017
Ohio	May 13, 2017
Pennsylvania	April 29, 2017
Pennsylvania	May 6, 2017
Texas	February 18, 2017

JOIN AAUW GREENSBORO BRANCH

A membership discount is offered by AAUW (national membership only) so that Tech Savvy Committee members, volunteers and adult attendees can join AAUW at the special rate of $21.00 for the first year of national membership (March 28, 2017 to June 30, 2018), fifteen months for the price of one year. To avail the discount, go to http://www.aauw.org/national/join/ and enter the code M17TECHSAVVY in the blank. Then click Apply and follow directions to apply online.

You may also fill out the form, print and send it with $21 check to:

AAUW Greensboro Branch
P.O. Box 10754,
Greensboro, NC 27404.

We will send the check to AAUW for you.
Please stop by the AAUW table in the lobby for "Shape the Future" membership for AAUW National, AAUW NC, and Greensboro Branch at $48.50.

Ann Schwabeland
336-288-6252
schwabeland@att.net

AspireIT Program
(IT is for Girls)

Mon.-Fri., July 24-28, 2017

Exciting hands-on activities during the week-long summer camp at UNCG:

- ***Apply*** Computational thinking to solve social problems;
- ***Create*** animations and video games using MIT's SCRATCH software; videos in Film Festival session;
- ***Design*** web pages;
- ***Explore*** computer and internet security; Project CS Activities; virtual reality systems by using the Bobo VR Headset
- **Build** Internet of things using Raspberry Pi and Arduino; LEGO® Robots, Sphero;
- ***Develop*** *Leadership Skills;*
- ***Attend*** field trips to local Businesses;
- ***Meet*** successful "Tech Divas" from UNCG & area firms to learn about career opportunities, plus interact with Aspirations in Computing Award Recipients and UNCG undergraduate & graduate students.

wiit.uncg.edu (wiit@uncg.edu)

Who: Rising Middle-school (rising 6th to 8th grade) Girls
Where: UNCG Bryan Building
When: Mon-Fri, July 24-28, 2017—Day Camp
Cost: **$25 registration+$100 workshop = $125**
(after 5 pm Monday May 5th, 2017 fee will be $175 ($25 + $150 camp fee).)

Registration required (opens March 6, 2017); limit of 80 students.
Register online & see the tentative schedule at **wiit.uncg.edu**.

Platinum Sponsors: Lincoln Financial Group, NCWIT Aspirations in COMPUTING

Gold Sponsors: Google, ABCO Outstanding Automation Experience, HandyCapable Network, ANALOG DEVICES, Guilford County Schools, AAUW Greensboro Branch, UNCG

TRIAD TECH SAVVY SPONSORS

Event Co-sponsors

THE UNIVERSITY of NORTH CAROLINA GREENSBORO

AAUW empowering women since 1881

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JSNN UNCG Joint School of Nanoscience and Nanoengineering
A collaborative project of North Carolina A&T State University and the University of North Carolina at Greensboro

ForsythTech
Education For Life

NORTH CAROLINA A&T STATE UNIVERSITY

WINSTON-SALEM STATE UNIVERSITY

125th ANNIVERSARY
1892 - 2017

LEAD Girls of NC

4-H...
More than you ever imagined!

PARI

GgYyCc
greensboro youth council

girl scouts

Greensboro | High Point | Winston-Salem
TRIAD
Association of Black Journalists

SAY YES TO EDUCATION GUILFORD
sayyestoeducation.org

PARI 2017 TOTAL SOLAR ECLIPSE

FIRST® Robotics Team #2655
The Flying Platypi
From Colfax, North Carolina