Expanding Your Horizons
Friday, March 24, 2017

Please Print

Student Name __________________________ FIRST LAST

Telephone __________________________ City __________________________

School __________________________

Grade __________ Special Needs* __________________________

E-mail __________________________

*Reasonable accommodations will be made

Registration closes March 10th or earlier if filled.
For more information, see your school counselor, or visit
http://lakewashington-wa.aauw.net

Workshop Preferences
You will be assigned to three workshops. Place your workshop number choices in the blank spaces below. Please explore a variety of professions. By indicating nine workshops you improve your chances of getting workshops you have chosen.

1. ___________________ 4. ___________________ 7. ___________________

2. ___________________ 5. ___________________ 8. ___________________

3. ___________________ 6. ___________________ 9. ___________________

Student Fee $20 (non-refundable) covers lunch/materials.
Your school must be notified of your plan to attend this conference before mailing in your registration. No confirmation will be mailed—your counselor will be notified of your registration. Students registering independently may check registration status at gogirlseyh@gmail.com

Registration forms must be postmarked by March 10, 2017.

Make checks payable to: AAUW / HS EYH
Mail to: Expanding Your Horizons
16602 NE 18th Street
Bellevue, WA 98008

EDUCATORS AND PARENTS – PLEASE USE SEPARATE ADULT REGISTRATION FORMS

Adult program & registration forms are available at http://lakewashington-wa.aauw.net.

Questions: gogirlseyh@gmail.com

EYH Conference Goals:
• Increase the interest of young women in science, technology, engineering and math (STEM) through positive, hands-on experiences.
• Foster awareness of career opportunities in the STEM fields.
• Provide young women with opportunities to meet and interact with positive role models who are active in STEM-related careers.

Sponsored by:

Bellevue College
3000 Landerholm Circle SE
Bellevue, WA

REGISTER NOW!
Space is limited!

Science, Technology, Engineering & Math
Conference for Girls
Grades 9 – 12
Friday, March 24, 2017
7:45 a.m. – 1:00 p.m.
Expanding Your Horizons
Friday, March 24, 2017 • 7:45 a.m. – 1:00 p.m.
Conference Schedule
7:45 – 8:15 Check in – Bellevue College cafeteria
8:30 Session 1 Workshop Begins
1:00 Conference Ends

Workshops
1. **You’ve Got the Power!**
   Providing energy while minimizing the impact that we have on the climate is a major challenge facing us in the world. Hands-on experience with electrical circuits gives you a chance to explore it.
   Maureen Albi, Area Channel Manager; Marsela Jakub-Wood, Power Systems Engineer; Michele Bar, Drives Product Expert
   SCHNEIDER ELECTRIC

2. **Take the Challenge: Could You Be a UX Researcher?**
   Think you can spot the flaws on a website? Take the challenge and explore the field of user experience research and see if you can discover the failures and the winners.
   Jessica Ashdown, Sr. UX Researcher
   T-MOBILE

3. **Researching People: The Things They Tell You**
   Learn how Facebook researchers study people to make products fun and easy to use. You will learn how to conduct a research session and use the findings to make meaningful product changes.
   Nika Smith Auld, Mary LaLomia, User Researchers
   FACEBOOK, INC.

4. **Hand On Therapy – What is OT?**
   Join this interactive event to increase your awareness of a fast growing healthcare field – Occupational Therapy. Learn about the variety of settings OTs work in. Also have fun fabricating your very own sample splint!
   Constance Ballou, MA, OTR/L, CHT
   SELF-EMPLOYED

5. **Construction Industry Career Paths**
   Learn about the many opportunities in the construction industry! From Design-Build projects to virtual reality mock-ups, project planning, cost and scheduling, marketing and business development.
   Erin Boas, Construction Cost Estimator; Cera Martin, Project Engineer; Cori Palmer, Project Development
   MORTENSON CONSTRUCTION

6. **Come to Your Senses**
   Learn how your brain can interpret and respond to external signals (like pressure, temperature, and light). Hear from neuroscientists who study how the brain works.
   Stephanie Bucks, PhD Scientist; Clare Gamlin, Kali Esancy, Graduate Students
   UNIVERSITY OF WASHINGTON

7. **Math in Everyday Life**
   Join us as we look at graph theory, which is used in laying fiber optic networks and planning efficient routes for travel, and also explore cryptography, which people turn to when they need to secretly store or communicate messages.
   Rini Chakrabarti, Usha Raman, Instructors
   BELLEVUE COLLEGE

8. **Medicine Woman**
   Explore the different opportunities in the exciting field of pharmacy.
   Experience what it is like to compound your own product and customize it to fit your needs or preference.
   Kara Chao, Renee Johnston, Pharmacy Dept.
   SWEDISH MEDICAL CENTER

9. **Designing Technology with Psychology**
   The field of Human-Computer Interaction is about how people interact with technology. You’ll learn how strategies from psychology can be used to encourage people to make smart choices about technology.
   Sunny Consolvo, Joe Tullio, User Experience Researchers
   GOOGLE

10. **A Great Technology Needs Great Marketing**
    You may have created an amazing technology product, but how do you drive customers to adopt your product? Learn how to create a marketing strategy using a real problem faced by Microsoft Cloud.
    Teresa Conte, Senior Product Marketing Manager
    MICROSOFT

11. **Engineering Behind Your “Morning Java”**
    Millions of cups of coffee are consumed every day. Learn how science and engineering combine to create a delicious drink while brewing up your own cup!
    Grace Czajkiewicz, Industrial Engineer; Mickey Downey, Controls Engineer, Anthony Colosimo, Chemical Engineer
    KEURIG GREEN MOUNTAIN

12. **CSI: Solving Crime with Fingerprints**
    Develop fingerprints like a real CSI! You will apply the chemicals, develop and lift the prints. You will also get to see fingerprints “glow” with an alternate light source!
    Rachel Forbes, Amanda Poast, Tammy Chaney; Latent Print Examiners; Amanda Corrigeux, Identification Technician
    SEATTLE POLICE DEPT.

13. **Axe Your Immune System**
    Examine 3-D acupuncture models and work with actual herbal samples. Learn about actual clinical cases where Acupuncture and Herbal Medicine brought patients to balance and better health.
    Mayme Fu, Acupuncturist and Herbalist
    PEOPLE’S ACUPUNCTURE

14. **The World of Microfluidics**
    We will explore fluid and colloids on the micro scale and discuss applications on the nano scale! We will create ferrofluid and “elephant toothpaste.” While based in chemistry, this workshop is multidisciplinary.
    Belinda Garana, Angela Kimber, Students
    UW, SOCIETY OF WOMEN ENGINEERS

15. **Bridging the Gap**
    Working as a team, use popsicle sticks and glue to build a simple bridge that will hold the greatest weight. The bridge that supports the most weight wins a prize.
    Stephanie Gardner, Engineering Manager
    ALASKA AIRLINES

16. **Epidemics!**
    Discover how diseases like Ebola, flu and malaria spread in a population, and learn what we can do to control epidemics.
    Jaline Gerardin, Caitlin Bever, Research Scientists; Jillian Gauld, Postgraduate Research Scientist; Liana Mercer, Research Statistician
    PHYSIO CONTROL, CAMP INTERVENTION

17. **Building Virtually to Build in Reality or Moving Beyond Mindcraft**
    Construction is more than a tool belt. Come and learn about other job opportunities in construction; specifically learn about virtual design and construction – prototyping the building inside software.
    Lana Gochenauer, VDC Manager; Christina Anderson, VDC Coordinator
    LEASE CRUTCHER LEWIS

18. **Atmospheric Chemistry and Physics**
    Learn about the power of the atmosphere and the scientific processes that are happening all the time around you!
    Lexie Goldberger, Megan McKeown, Graduate Students
    UNIVERSITY OF WASHINGTON

19. **Are You Ready for the 21st Century Admissions Landscape?**
    Hear about the latest updates on the world of college admissions and learn how to put your best foot forward. You’ll leave with your digital portfolio highlighting your strengths and talents that will increase your acceptance rate.
    Reetu Gupta, CEO
    CIRKLED IN
20. **Wanted: Guardians of Nature**
   Explore the way that park rangers work with the environment! We’ll identify native plants, learn how to teach others about the natural world, and discuss different ways to protect nature.
   Heather Hansen, Park Ranger
   WASHINGTON STATE PARKS & RECREATION COMMISSION

21. **Stitch a Chicken and Splint a Friend**
   Come learn and practice surgical suturing on chicken skins, splinting your neighbor’s not-so-broken limbs and learning about the day-to-day activities of an orthopedic surgeon and PA-C.
   Katie Henderson, Physician Assistant-C; Kathleen Moen, M.D.
   SWEDISH MEDICAL GROUP

22. **Building Blocks of the Milky Way**
   Use real data to show that our own galaxy was assembled by accreting dwarf galaxies and the process is still happening!
   Joanne Hughes, Ph.D., Physics
   SEATTLE UNIVERSITY

23. **The Heart of Nursing**
   Do you know that nurses work in IT, on cruise ships, and as CEOs? We’ll talk nursing careers, look at the inner working of a real cow heart and lung, and how dysfunction can affect patients.
   Melissa Hutchinson, MN, RN, CCNS, CCRN; Natina Dudley, RN, MSN; Collyn West, RN; Tarrah Calender, MN, RN
   VAPSHCS

24. **Design Studio**
   Like art and science? Open up your imagination to product development! Learn creative problem solving techniques and how they apply to today’s design industry.
   Sena Janky, Principal Interaction Designer
   PHYSIO CONTROL
   Kristin Wells, Industrial Designer/Consultant
   CAMP INTERVENTION

25. **Virtual Reality: Make & View Your Own 360 Video**
   Learn about the new world of immersive technologies including augmented reality, virtual reality and mixed reality. Make your own VR headset; shoot your own 360 video and then view it on your headset.
   Mary Jesse, Board Member
   BSQUARE

26. **Unlock the Mysteries of the Human Brain**
   Come dissect fresh sheep brains and analyze preserved human brains as we explore how this simple organ helps us to see, feel, move and learn.
   Naomi Jones, Biology Instructor
   BELLEVUE COLLEGE

27. **Can You Save A Duck?**
   Oil spills can impact a duck’s habitat. Test out a few methods to clean up an oil spill and find out what works best to save a duck.
   Sylvia Kawabata, Manager (retired); Sharon Nickels, Contract Project Officer (retired)
   US ENVIRONMENTAL PROTECTION AGENCY

28. **Design of Everyday Things**
   Want to know why some ideas succeed while others fail? Learn about Design Thinking, which will help you design better products, services and experiences through a human-focused, prototype-driven problem solving design process.
   Melissa Kerr, Design Program Manager; Nicole Calace, Product Designer
   FACEBOOK, INC.

29. **Landscape Masterpiece**
   #Dreaming, #LoveFlowers, #ArtAndScience = City or country.
   Desk work or outside time. Learn more about Landscape Design by putting ‘plants’ to paper and see if your career dreams can come true.
   Kirsten Lints, C.P.H., Landscape Designer
   Gardens ALIVE Design

30. **Save the Oceans (and the Fish and Birds too)!**
   Do our energy sources present risks to our environment? Explore different materials and attempt to contain and cleanup an oil spill.
   Then we’ll investigate the effects of an oil spill on marine wildlife
   Lynette Lopez, Kristen Marquez, Manufacturing Engineers
   BOEING

31. **Let The Games Begin!**
   Would you like to create your own games? Explore electrical circuits while you construct your own game using the Electronic Matching Game Agiliten Kit, and challenge your family and friends.
   Stephanie Lorber, Production Engineer; Lynette Lopez, Manufacturing Engineer
   BOEING

32. **Ocean Observing Systems**
   Learn how scientists use an instrumented undersea cabled array off the Oregon Coast to study hydrothermal vents and submarine volcanoes. Use a CTD to take measurements of seawater.
   Dana Manalang, Systems Engineer; Trina Litchendorf, Oceanographer
   UNIVERSITY OF WASHINGTON

33. **You’re an Ichthy-What?**
   Ichthyologist = a person who studies fishes. Learn about the UW’s 11 million preserved fish specimens, hear what it’s like to do field work on fishing boats in Alaska, and try to identify some of our local fish species.
   Katherine Maslenikov, Ichthyology Collection Manager
   UNIVERSITY OF WASHINGTON

34. **Landscape Architecture – Design, Ecology and Architecture**
   Landscape architecture is a creative and technical field with projects ranging from urban parks to habitat restoration. In this session, students will explore park design and this dynamic profession.
   Chelsea McMann, Principal; Kirsten Dahl, Landscape Designer; April Maly, Landscape Architect
   WALKER MACY

35. **Street Smarts – Credit Cards, Scams and Business Ethics**
   This terrible trio can really mess you up, sometimes for the rest of your life. Learn how to avoid common pitfalls and outsmart THEM before they outsmart YOU!!
   Martha McCreedy, CPA
   SELF-EMPLOYED

36. **Creativity and Biodiversity**
   Design a new type of corn! We will explore the importance of agricultural biodiversity and the science of plant breeding by learning how a new variety is created.
   Caitlin Moore, Instructor and Seed Grower
   URBAN FOOD WARRIOR
   Kurt Sahl, Director of Operations
   21 ACRES

37. **Wine – The Science Behind “Poetry in a Glass”**
   “The Whole is Greater than the Sum of its Parts.” Grape juice + yeast = delicious beverage; simple, right? Explore the complexity within the simple equation that a world-wide industry is based on.
   Donna Moyer, Wine Consultant, Sommelier
   SELF-EMPLOYED

38. **Building Your Business: Social Media and Technology**
   Women entrepreneurs leading the future! Build your business and leadership in technology.
   Diane Najm, CEO/Founder, PHOTOPAD FOR BUSINESS
   Bob Crimmins, Co-Founder, WISE WALKER/TECH STARS

39. **Stormwater Engineering to Save Our Environment**
   What does it take to clean rainwater that runs over the streets into a stormwater pipe which discharges to a salmon-bearing stream? Explore the world of stormwater engineering with women engineers.
   Tarelle Osborn, President & Senior Civil Engineer; Ann Bryant, Deepa Mungasavilli, Project Managers & Senior Civil Engineers
   OSBORN CONSULTING

40. **The Poetics of Construction Design & Remodeling**
   Learn what is involved in a residential renovation project from start to finish – assessing client’s needs, selecting materials, design applications and more.
   Natalie Pritchett, Project Manager; Ginny Chan, Design Associate
   NEIL KELLY
ATTENDANCE: You will receive proof of attendance at the conference. Your school will be notified if you are registered but do not attend the conference.

We wish to thank Bellevue College; AAUW (American Association of University Women) Lake Washington Branch and our other sponsors for their support.

Questions? E-mail: go@girlseyh@gmail.com

Need another brochure?

Go to http://lakewashington-wa.aauw.net

Are you interested in the Middle School Expanding Your Horizons for 6th, 7th and 8th grade girls to be held at Bellevue College Saturday, March 25, 2017? If so, e-mail eyh@bcc_middleschool@hotmail.com