**TSTA PROGRAM PROPOSAL 2017**

**Nov 9-11 – Embassy Suites, Murfreesboro, TN**

**Theme for 2017:**

**Transitioning to 3D learning: Connecting the vision of the K-12 Science Framework to TN Science Standards**

The TSTA Conference and Professional Development Institute will be held at Embassy Suites, Murfreesboro, Tennessee. We need educators from all grade levels—kindergarten through higher education—to come and share their skills, ideas and activities in science with fellow teachers. Proposals are being sought that will increase participants’ understanding and awareness of topics relating to content and pedagogical knowledge and best practices with a focus on one of the conference themes. As you plan your presentation, please determine how your proposal addresses one or more of the strands listed below and indicate this on the form. Presentations for audiences other than P-12 teachers are expected to address the same strands for the target audience. We encourage you to submit a proposal and we look forward to seeing you at the conference.

Proposals are due by 09/23/17 (pre-conference session proposals deadline 7/31/17).

**CONFERENCE STRANDS:**

**Implementing 3 Dimensional Learning**

The new standards and the Framework for K12 science require teachers of science to have students explore and explain the natural world using the 3 dimensions: scientific practices, disciplinary core ideas, and crosscutting concepts. This shift to 3-dimensional learning will require new ways of thinking about and implementing instruction for our students in Tennessee. Participants will engage in activities that help them develop and understanding of best practices in 3D learning.

**Integrating Literacy, Science and Math**

To meet the demands in the 21st century it will be necessary to produce students who are literate and can think critically and analytically. This strand will allow participants to experience how integrating targeted skills and concepts from multiple content areas can enrich science instruction, promote literacy and engage learners. Emphasis will be placed on high-quality science instruction in the areas of TN Ready state standards for math and English language arts, CTE, and subject areas such as social studies and the arts.

**Building on Science for effective STEM Learning**

From Pre-K to the College classroom, students of all ages should be exposed to STEM lessons that provide opportunities for them to work as members of a team. STEM lessons require students to design solutions to problems (engineering) by asking and answering questions (science & math), and by using and/or designing different technologies (tools to aid in accomplishing a task). Participants will engage in discussion and participate in activities for teaching STEM lessons that they can take back to the classroom.

Shortly after submitting your proposal, you'll receive an e-mail with "Proposal Submission Confirmation" in the subject line.

**All presenters must register in advance at http://www.tsta.wildapricot.org/ and pay prior to the conference date. You will be also be required to sign a form acknowleding you have read and agree to the Code of conduct.**

**Can I Cancel a Session?**

If you are canceling your session, the Conference Office needs to be informed as soon as possible

**Can I Add or Remove Presenters/Presiders?**

If you wish to add or remove a presenter or presider, please e-mail Marjorie Rothschild at doctormags@gmail.com . Submit their names and contact information.

**I Did Not Receive a Response to My Proposal—Why Not?**

If you did not receive a response, there may have been a miscommunication or a problem with your e-mail address. Session confirmation e-mails will be sent by October 20.

**RETURN FORM TO: tstaconference@gmail.com**

Please visit the TSTA website for FAQ’s concerning proposals on our conference page: http://www.tsta.wildapricot.org/

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**PART I. CONTACT INFORMATION**

**Title: \_\_\_\_\_\_It’s in the Genes!\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| --- | --- |
| Presenter Name Heather Wallace | Co-Presenter 1 Name Justin Chapman |
| Presenter Address 4719 Moss Dr | Co-Presenter Address 369 Wierwood Dr |
| City/State/ZIP  Knoxville, TN 37912 | City/State/ZIP  Jacksboro, TN 37757 |
| Phone Number (provide phone for emergency contact day of conference)  865-803-2696 | Phone Number (provide phone for emergency contact day of conference)  423-912-4630 |
| Email address  heather.wallace@ccpstn.net | Email address  darrell.chapman@ccpstn.net |
| School System/Affiliation  Campbell County | School System/Affiliation  Campbell County |
|  |  |
| Co-Presenter 2 Name Glenda Ayers | Co-Presenter 3 Name |
| Co-Presenter Address 156 Big Four Rd | Co-Presenter Address |
| City/State/ZIP  Lafollette,TN 37766 | City/State/ZIP |
| Phone Number (provide phone for emergency contact day of conference)  423-784-5136 | Phone Number (provide phone for emergency contact day of conference) |
| Email address  glenda.ayers@ccpstn.net | Email address |
| School System/Affiliation  Campbell County | School System/Affiliation |

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## PART II. GENERAL SESSION SUBMISSION FORM

**Presenter**: \_\_\_\_\_\_\_\_\_\_Heather Wallace, Justin Chapman, and Glenda Ayers\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| --- | --- | --- | --- | --- | --- |
| Title of Session: It’s in the Genes! | | | | | |
| Description: *Briefly describe your session as you would want it to appear in the program.*  *From Queen Victoria to CSI, learn how to teach genetics using a crime lab and pedigree analysis.* | | | | | |
| Conference Strands Addressed (write in strands):  Integrating Literacy, Science, and Math | | | | | |
| How does your presentation address these strands?  This presentation is two fold. We have an activity in which participants will snip strands of DNA after doing a close reading of a crime story. Once they have placed the DNA strips on the suspect charts they can compare to the criminal to determine who stole the necklace. The final portion of this activity will include a writing activity for participants to describe the process that they followed and an extension activity to assess application of skills taught. The second portion is an activity on the pedagogy of the Royal Family descendants from Queen Victoria I and a pedigree analysis tracing hemophilia through generations with a detailed description on how to discuss with students. | | | | | |
| **Type of session:** | | | | | |
| \_\_x\_\_ Hands on | \_\_x\_\_ Lecture | \_\_\_\_ Demonstrations | | | \_\_\_\_ Panel |
| Who is your audience? | | | | | |
| \_\_\_\_ K-2 | | | | \_\_\_x\_ 6-8 | |
| \_\_\_\_ 3-5 | | | | \_\_\_x\_ 9-12 | |
| \_\_\_\_ K-12 | | | | \_\_\_\_ Supervision | |
| \_\_\_\_ Other | | | | \_\_\_\_ Higher Education | |
| What content area is addressed? | | | | | |
| \_\_x\_\_ Biology, Life Science | | | | \_\_\_\_ Physical Science | |
| \_\_\_\_ Earth Science, Environment | | | | \_\_\_\_ Chemistry | |
| \_\_\_\_ Space | | | | \_\_\_\_ Technology | |
| \_\_\_\_ Physics | | | | \_\_\_\_ Other | |
| SESSION LENGTH – Sessions are one hour blocks maximum (plan for 50 minutes). Transition breaks occur between sessions so that you may set up. | | | | | |
| Session will be a one hour session which will last approximately 45 minutes then allow time for clean up and transition. | | |  | | |