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## YOU KAN: a graduate student perspective on K-12 Outreach in KS

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# YOU KAN: a graduate student perspective on K-12 Outreach in KS

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*Science gets interesting at **interfaces**.*



# K-12 Outreach in Kansas



**NSF GK-12 EIDROP Fellow (2014-2015) #0841414**

Partnership with USD 475  
'Resident Scientist', AP Biology

**EXCITE! Summer Workshop Series (2015, 2016) KAWSE Office**

'*Drosophi*-what? Using Fruit Flies as a Biological Model Organism', 9<sup>th</sup>-12<sup>th</sup> grades



**4-H SPecial Interest (SPIN) Fall 2015-Spring 2016**

After school programming with USD 383, 2<sup>nd</sup>-5<sup>th</sup> grades

**Camp R.O.A.R. (Real Observation ARound Us), Lincoln Elementary School, K-5<sup>th</sup> grades, funded by ASCB COMPASS Outreach grant**



Engaging in outreach is a ***unique graduate training experience.***





Successful outreach programs  
*meet students where they are.*





*Who should I partner with?  
How often should I visit?  
How long should the visits be?  
What should I talk about?  
Should we do experiments?  
How do I know if it's too complex?  
**What if the students laugh at me?!**  
**What if a zombie apocalypse begins while I'm there?!***

- You will not be perfect.
- You will need help.
- Things will not go exactly as you plan.
- You will get better with time.

***If you walk into the classroom with good intentions and a plan, you will succeed.***



Find your *niche*.



**KANSAS**

*"It's not that bad!"*







Interweave a ***message*** or ***set of themes***  
into your outreach curriculum.

(Stop.) ***Collaborate and listen.***





Maximize your influence through a mix of *sustained* and *short-term partnerships*.



Johnson Center for  
**Basic Cancer Research**

KANSAS STATE UNIVERSITY

**KANSAS STATE**  
UNIVERSITY



Office for the Advancement of  
Women in Science and Engineering



**LOCAL SCHOOL DISTRICTS**



ADVANCING SCIENCE, SERVING SOCIETY

**SCIENTIFIC SOCIETIES**

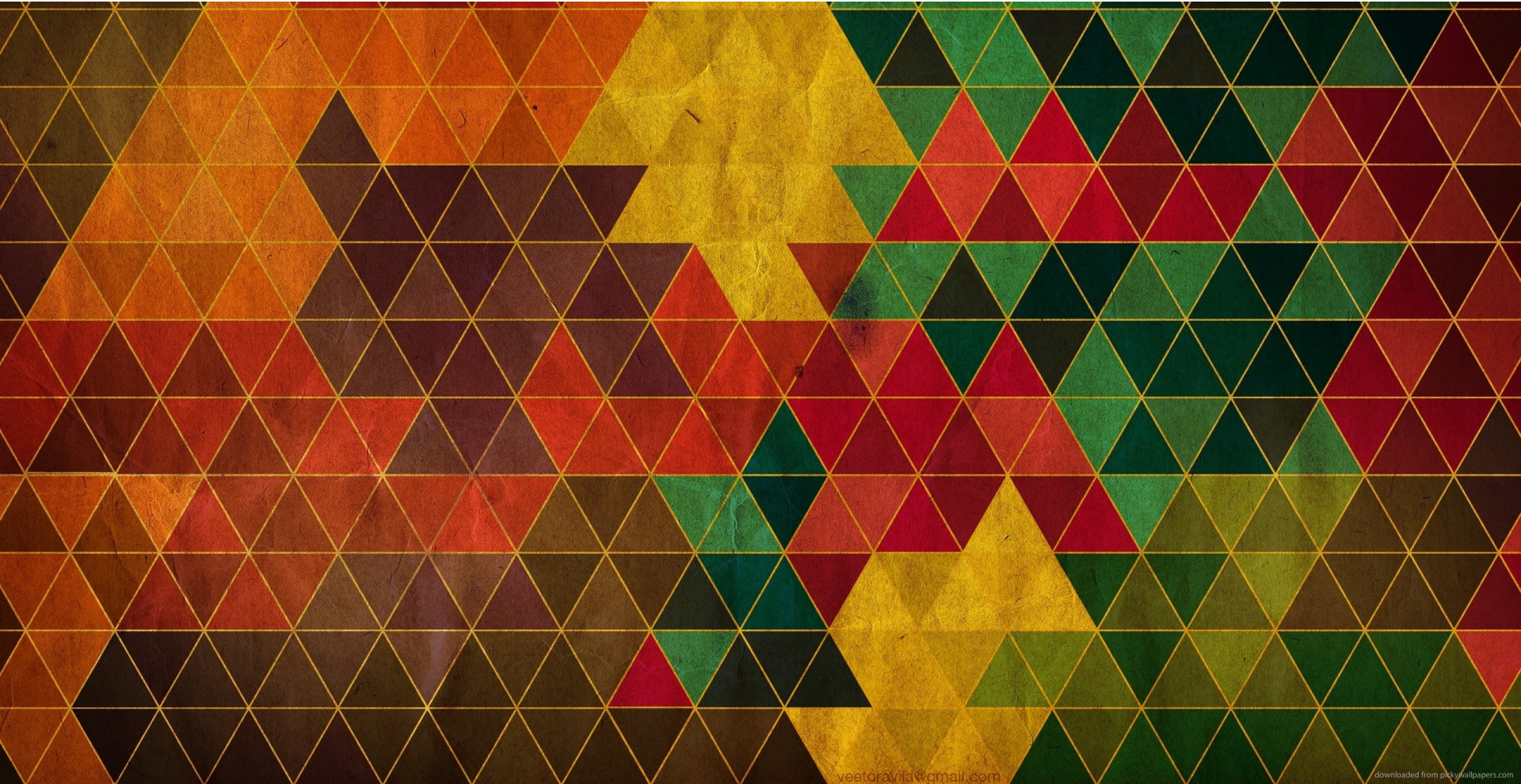
Don't tell them. Don't just show them.

Let them **DO**.





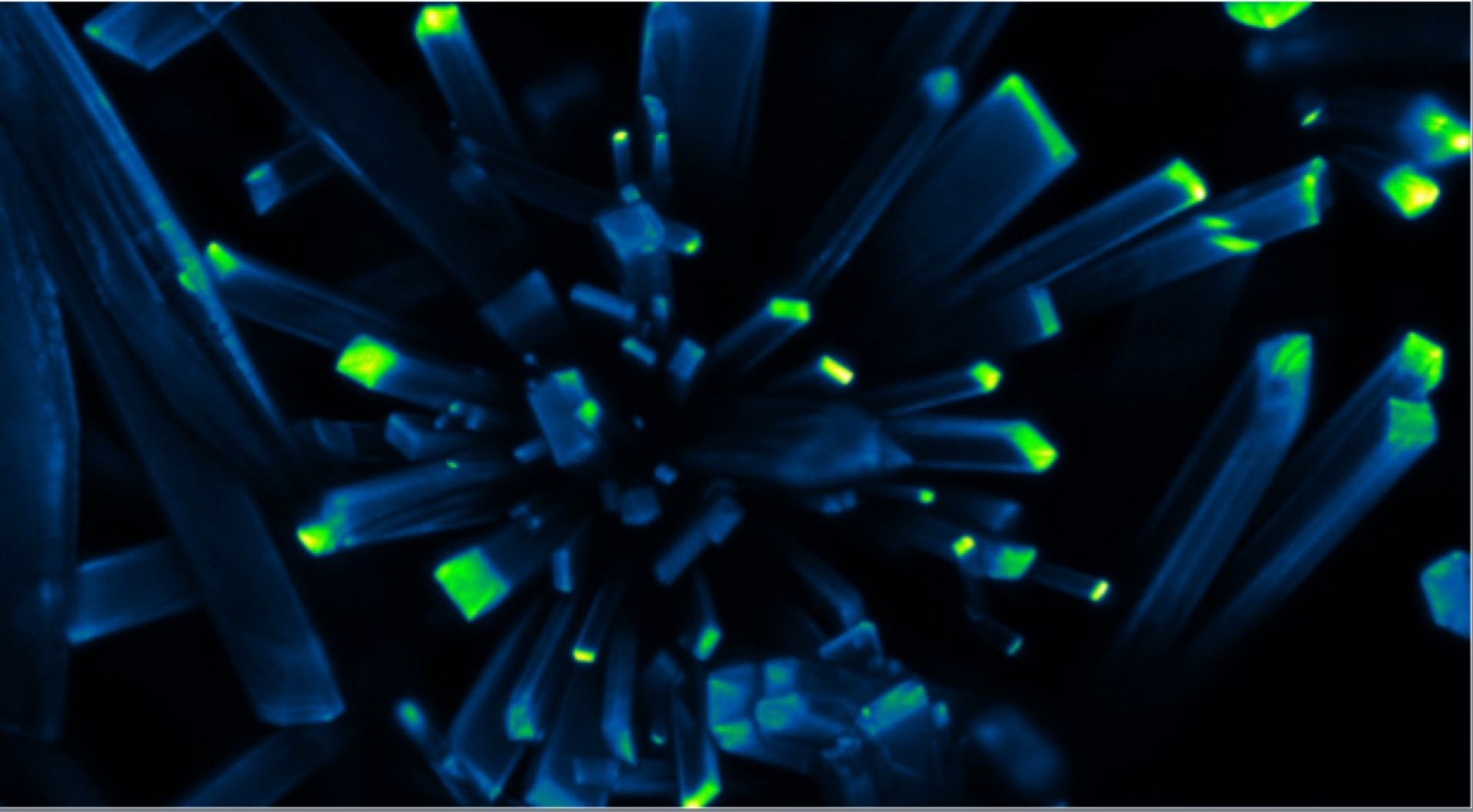
Construct the illusion of *spontaneity*.



Be cautiously *adventurous*.



Connect with your audience through  
*familiar* and *accessible mediums*.





Don't work harder. ***Work smarter.***



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You can become the resident  
**'OUTREACH EXPERT'.**

**DO NOT *OVERCOMMIT.***

**BE STRATEGIC IN YOUR  
OUTREACH.**



**GRADUATION IS  
ALWAYS  
PRIORITY **#1.****



# ACKNOWLEDGEMENTS

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Department of Biochemistry & Molecular Biophysics



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Dr. Carolyn Ferguson, Project Director

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Dr. Tim Bolton

Dr. Scott Tanona

Dr. Eric Maatta

Dr. Jackie Spears

Dr. Sanjay Rebello

**KANSAS STATE**  
UNIVERSITY

Office for the Advancement of  
Women in Science and Engineering

**EXCITE**  
EXPLORING SCIENCE, TECHNOLOGY & ENGINEERING



COMPASS

ASCB Committee for Postdocs and Students

Spring 2016 COMPASS Outreach

Grant awarded to N.G for R.O.A.R.

Science Day funding.



## 4-H SPIN GROUPS

John Jobe, County Agent

Megan Loverude, USD 383

Kate Harrell, USD 383



## AP BIOLOGY COLLABORATION

Junction City High School

Rebecca Steiger, A.P. Biology

## R.O.A.R. SCIENCE DAY

Lincoln Elementary School

Kathi Teeter, Principal