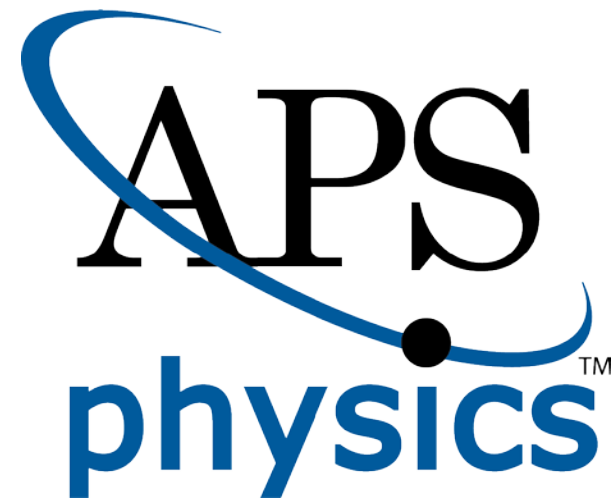


APS Public Engagement

ISABEL BISHOP



Plan for the Summer

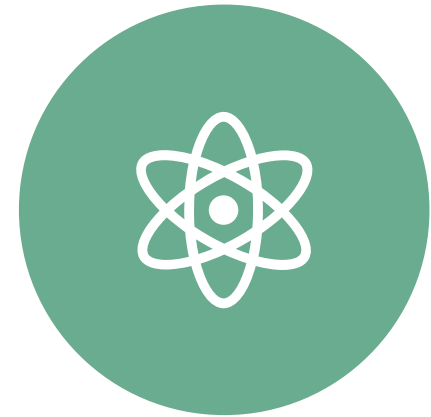
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PART ONE – MY
PROJECT



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PART TWO – PHYSICS
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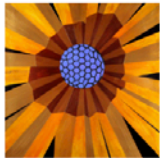


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Explore the Science

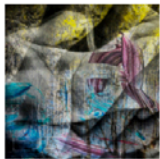
[Physics in Action](#)
[Physics +](#)
[People in Physics](#)
[Physics in Pictures](#)
[Podcasts & Vodcasts](#)
[Science off the Sphere](#)
[Explore Einstein](#)
[Writers' Gallery](#)

Art of Physics



[It's Not That Scary by Isabel Bishop](#)

Art and physics? Sometimes putting two completely different subjects together just serves to highlight the best part of each. It's Not That Scary is an art exhibition that uses art and humor to engage and teach about fun physics concepts.



[Human Nature Bishop by Steven Spartana](#)

Stephen Spartana is an award-winning photographer that has enjoyed a successful career in photography and videography for over 30 years. His work focuses on layering human and natural elements in dream-like compositions to highlight the ephemeral quality of life, the passage of time, and our relationship to the Earth.

About this Section

The Art of Physics features the work of a variety of different fine artists who are giving a fresh perspective on how to look at science concepts. Physics is more than just equations and experiments... Take a step into our virtual reality gallery spaces to learn how.

Part One

PHYSICS IN ART

Background

4

- ▶ “It’s Not That Scary” senior thesis exhibition in April 2019



- ▶ This summer gave me the opportunity to continue this project, and develop it more

Virtual Reality?

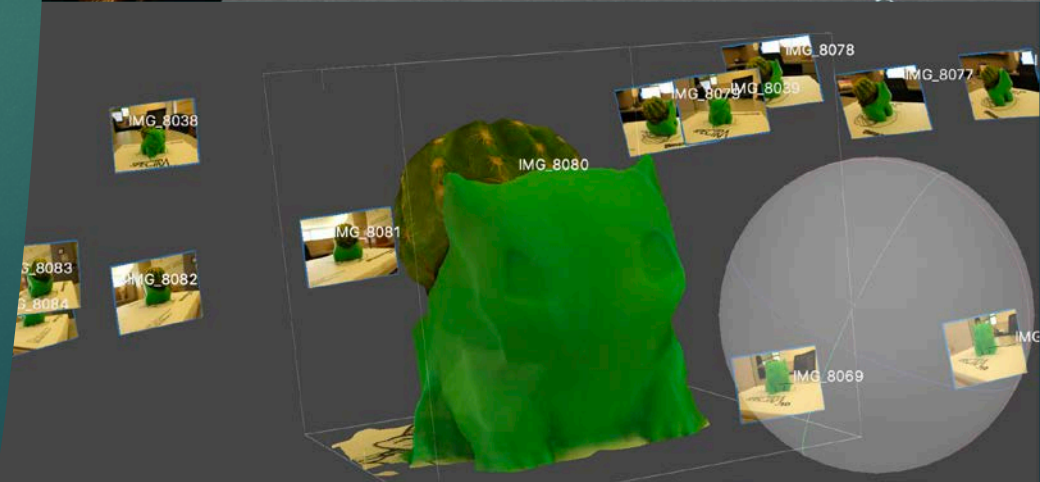
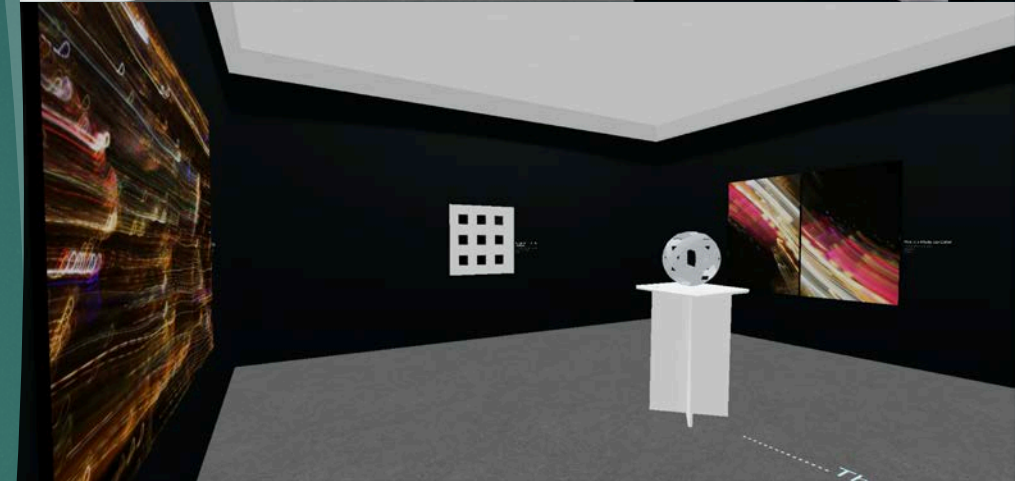
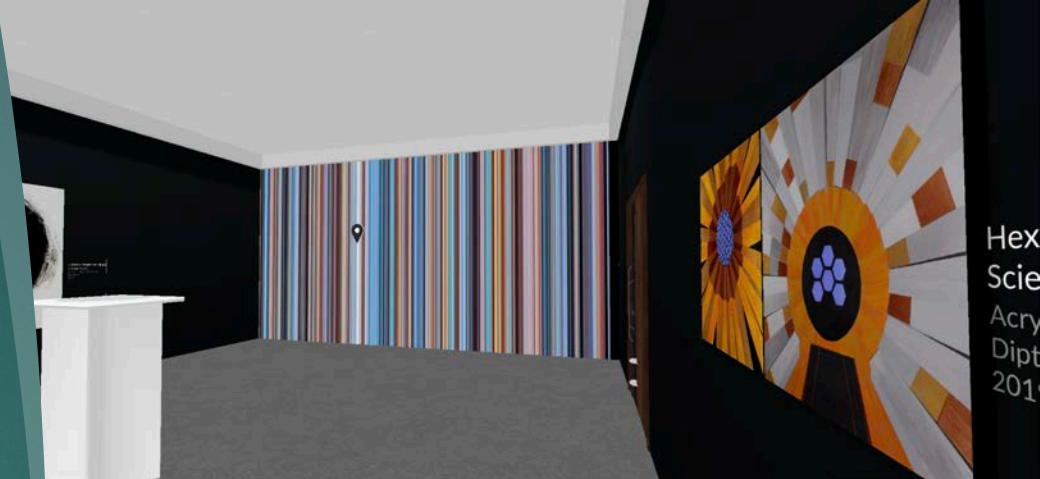
- ▶ Part of the main goals for INTS was to help make science accessible for people... Art is a universal language
- ▶ Not everyone will go to an art gallery or museum, so how do we expand the scope? Do it online!
- ▶ VR Gallery allows for a fully immersive experience – anyone with a smartphone or computer can walk around the gallery and learn about the work.



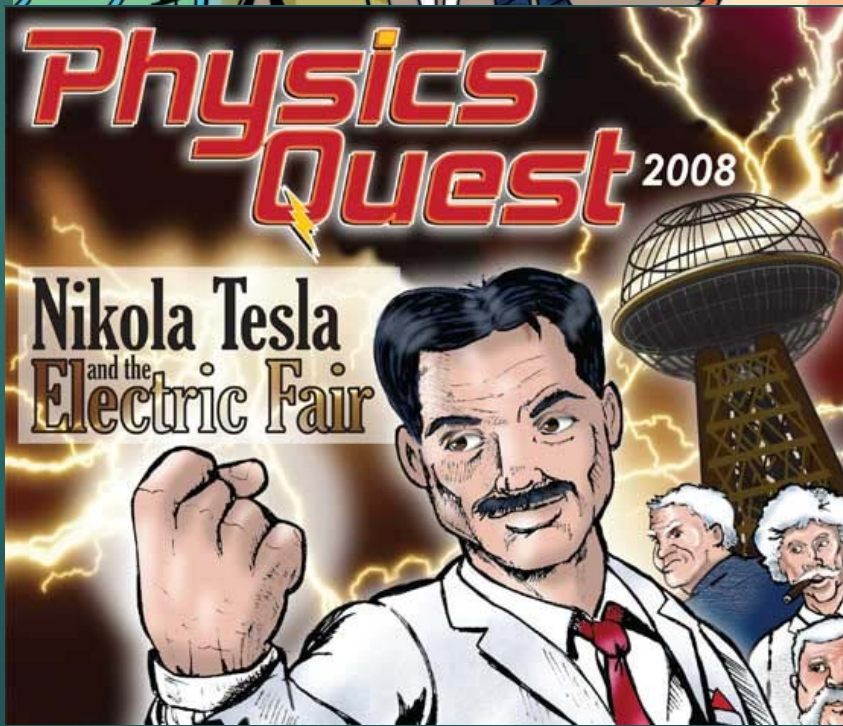
Designing the Gallery

- ▶ Research!!!
- ▶ Big Questions
 - ▶ What is the best platform?
 - ▶ Can we include 3D objects?
 - ▶ Can it be truly interactive?
- ▶ Recruiting other artists...

www.physicscentral.com/explore/art/

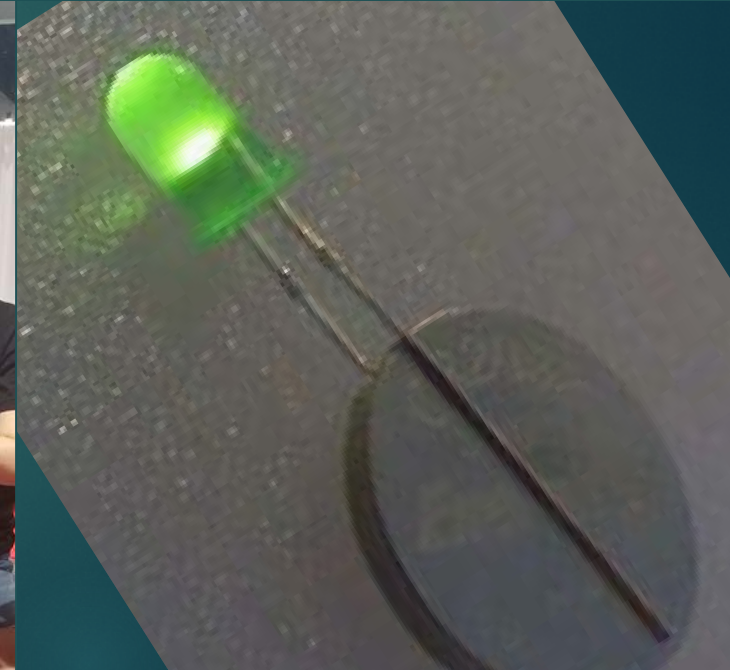


San
Diego
Comic
Con!!!



Free Comics!

- ▶ Connecting with kids/parents
- ▶ Connecting with teachers
- ▶ Science Demos
- ▶ Fun!



Part Two

PHYSICS QUEST



Explore the Sci

Ask & Experiment

PhysicsQuest

Physics@Home

Ask-a-Physicist

Activity Books

Video Contests

Einstein@Home

Adopt-a-Physicist

Discover



Screenshot

Past PhysicsQuest Projects

Although kits for past PhysicsQuest projects are no longer available, you can still complete the projects. You can download all of the project materials from the provided materials list to collect everything else you need.



Spectra's Sonic Surprise (2017)

It's bad enough that Lucy's powers have vanished—and goes from bad to worse when they're cancelled because of a power outage happening to Kass, and it might just



Spectra's Current Crisis (2016)

Andy and Cathy Terminal, two slick high schoolers, are in town pitching the latest and greatest entertainment—the Magno-Go-Round. A mysterious man in a white suit is over the town, scamming the town for all it's worth. It's up to Lucy and her friends to find out wh

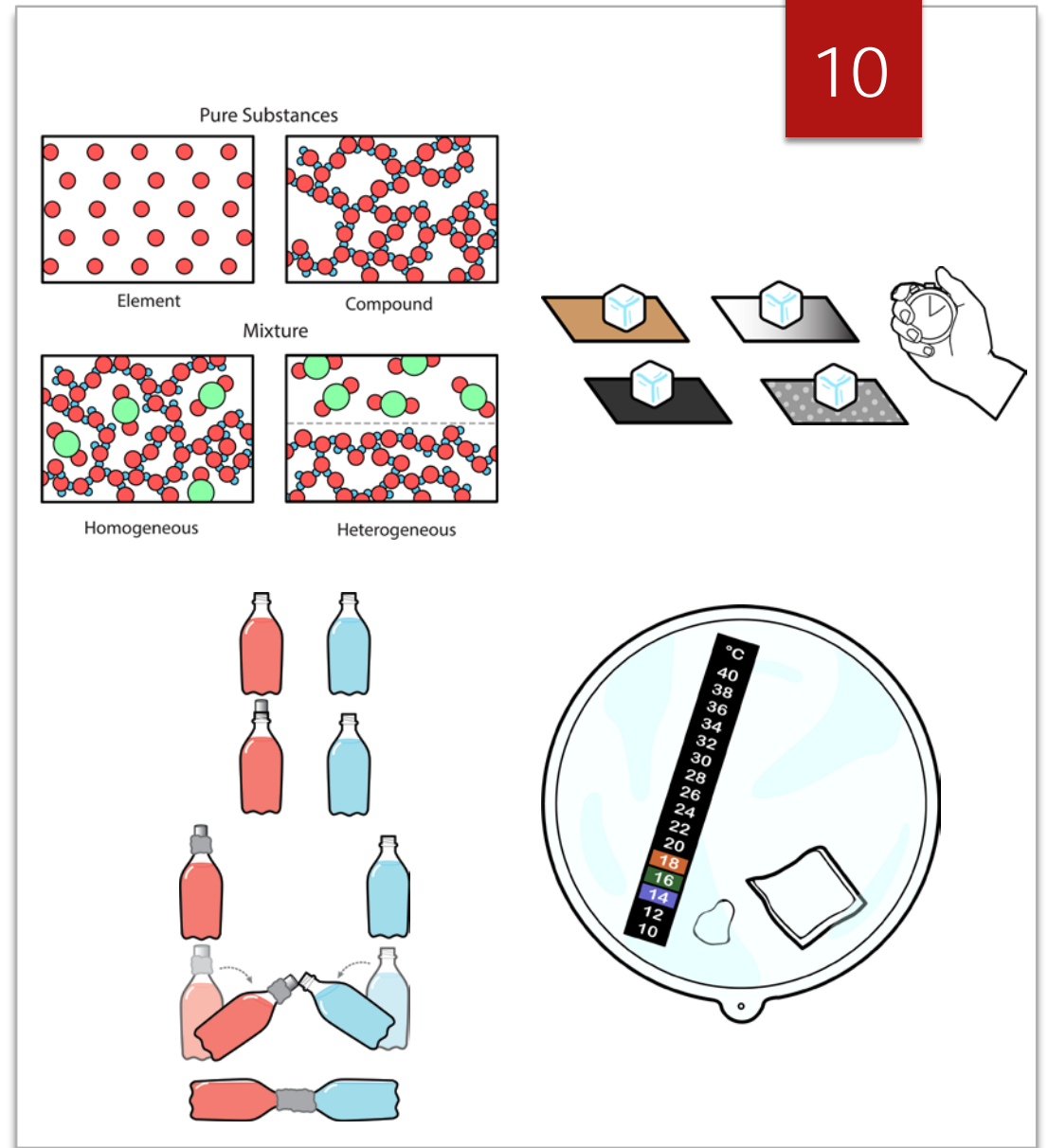


Spectra: High Intensity (2015)

Miss Alignment has broken out of jail and is executing evil plans. Armed with a high IQ, an elaborate secret lair, she will try yet again to conquer the world. Can you help Spectra, her gang, and her friends and Mechanic stop Miss Alignment's focus

Illustrating Concepts

- ▶ Preliminary once over to start sketching designs
- ▶ Working with a teacher to identify what parts should be illustrated
- ▶ Final drafts....



Finding a Scientist

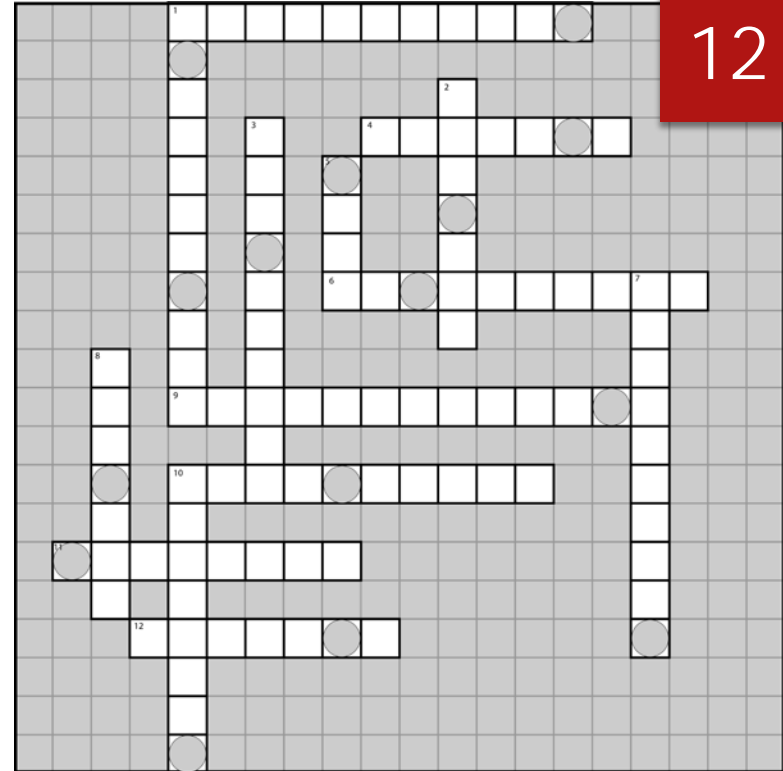
- ▶ Previous scientists: Marie Curie, Albert Einstein, Nikola Tesla...
- ▶ Great opportunity to highlight an underrepresented group
 - ▶ Specifically women of color
 - ▶ Must be a physicist
 - ▶ Must be notable enough for students to be able to pursue further knowledge on their own
 - ▶ Candidates included Mae Jemison, Sameera Noussa, Shirley Ann Jackson and France Anne-Dominic Cordova
- ▶ We finally chose Chien-Shiung Wu!



Puzzles!

- ▶ My fellow interns inspired me!
- ▶ Secret message revealed...

"A glimpse of this wonder can be the reward of a lifetime... Excitement and ennobling feelings like these have kept us scientists marching forward forever."



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Thank you!

QUESTIONS?

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