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# GDC Panel: U.S. National Investment in the Future of Games?

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### Who am I?

#### Elaine M. Raybourn, Ph.D.

#### Just a kid from Panama with a penchant for high adventure.

- ➤ Social scientist with a background in Fine Art and Human-Computer Interaction from Sandia National Labs on assignment to Advanced Distributed Learning Initiative (ADL)
- > Working in transmedia learning since 2010, serious games, virtual worlds, social simulations, and intelligent community systems since 2000
- > GDC Serious Games Advisory Board, 2005-2007
- ➤ GameTech Program Chair, 2011
- Greatest passions: communication, culture, technology, art, & science
- Favorite question: Why not?



# Investment in the future of games...

#### DoD invests in people, methods, technology

- Cognitive agility
  - How can we train people to adapt, and think on their feet?
- Scaling up quickly
  - How can we leverage crowdsourcing, peer learning?
- More realistic characters and personalized avatars
  - How can we improve AI for patterns of life and personalization
- Transmedia Learning
  - How can we create more immersive, connected experiences?
- Assessment
  - How can big data and game analytics help DoD understand the effectiveness of training?



# Real people with real stories



Photo courtesy of NTC



Photo courtesy of US Embassy, Iraq



Photo taken by E. Raybourn, USMC MAGTFTC, 29 Palms



### Get to know the players

#### Attend the conferences













http://www.gametechconference.com/ http://www.youtube.com/user/GameTech2013/videos

http://www.iitsec.org/

http://www.itec.co.uk/Content/Welcome

### Get noticed



#### Indie games welcome!



@sgschallenge

### Opportunities are out there

eric.j.hackathorn @ noaa.gov

#### Job Posting for NOAA

3D Visualization & Games Application Designer, Boulder, CO National Oceanic and Atmospheric Administration, Technology Outreach Branch (TOB)

Create 3D interactive content comprised of models, multimedia & graphic design elements, and code frameworks to interface with visualization engines

Present work at scientific meetings, in science journals, technical reports A bachelor's degree in computer science, electrical engineering, physics Familiarity with game development engines such as Unity Understanding of the basic concepts in a 3D rendering pipeline

Familiarity with Java or C#

Experience in software design and development Excellent problem-solving skills and logical thinking ability Strong interpersonal, oral, and written communication skills

# **Takeaways**

- National investments by DoD in games depend on the ability of the community to help meet challenges and solve complex interdisciplinary problems
- You are not alone, there is a path forward and a community you can reach out to

# Share your story





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