The World We Need

A Global *One Health and Well-Being* Education Funding Initiative

Preparing Society to Create the World We Need through One Health Education

The broadcast will begin momentarily





Conference Instructions



Peter Costa, MPH, MCHES Associate Executive Director, One Health Commission Moderator



mmission Education Task Force

Asking Questions

File View Help - Audio 0 Aud Example -You are connected to audio Talking: Nathalie Descusse 5 Questions Type your question In a search, what's the difference between "is" and the equals sign? here Send EHR Reporting with Crystal Report - Dry Run Webinar ID: 850-780-150 **GoTo**Webinar™



Technology

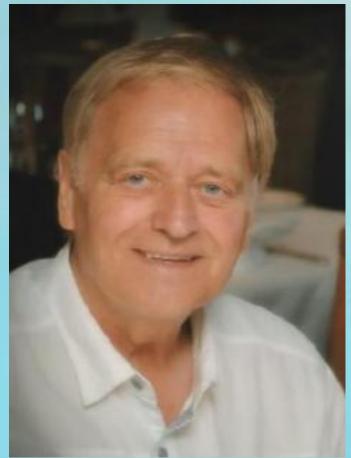








Welcome!



George Lueddeke, PhD Chair, One Health Education Task Force



Purpose of Conference

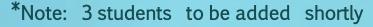
- Share findings of survey;
- Produce clear framework/skeleton for a funding proposal ;
- Gain consensus and further input around key questions;
- Provide information on next steps.





Task Force Members*

- Laura H. Kahn, MD, MPH, MPP. Co-founder, global One Health Initiative team. Research Scholar Program on Science and Global Security, Woodrow Wilson School of Public and International Affairs, Princeton University. Columnist, Bulletin of the Atomic Scientists.
- Bruce Kaplan, DVM. Co-founder,global One Health Initiative team. Manager/editor, One Health Initiative website. Former CDC EIS officer and USDA/FSIS food safety staff officer. Small animal veterinary medicine practitioner; retired.
- Gretchen E. Kaufman, DVM. Adjunct Faculty (Paul G. Allen School for Global Animal Health, Washington State University, Tufts Center for Conservation Medicine, Tufts University). Co-Founder and Associate Director, Veterinary Initiative for Endangered Wildlife.
- Rosina C. Krecek, FRSSAf, BS, MS, PhD, MAP.Interim Assistant Dean of One Health, Office of the Dean. Visiting Professor, Department of Veterinary Pathobiology, College of Veterinary Medicine & Biomedical Sciences. Texas A&M University, Texas, USA. Visiting Professor, University of Johannesburg, South Africa.
- Joann M. Lindenmayer, DVM, MPH. Chair, Board of Directors, One Health Commission. Previous Senior Manager of Disaster Operations and Director, Haiti Program. Department of Companion Animals and Engagement, Humane Society International.
- George R Lueddeke, MEd, PhD, Task Force Chair. Consultant Education Advisor in Higher and Medical Education. United Kingdom.
- Cheryl M. Stroud, DVM, PhD. Executive Director, One Health Commission. Previous chair of North Carolina One Health Collaborative.
- A. Lee Willingham, BSc, DVM, PhD. Associate Dean for Research and Postgraduate Studies. Director of One Health Center for Zoonoses and Tropical Veterinary Medicine. Professor of One Health. Institutional Officer, Ross University School of Veterinary Medicine, St Kitts and Nevis, West Indies.







Conference Overview



- WELCOME (5 min.) George Lueddeke
- SURVEY SUMMARY (15 min.) Joann Lindenmayer
- DISCUSSION
 - 1) Strategies for K-12 One Health Curriculum Innovation (20 min.) – Gretchen Kaufman
 - 2) Funding considerations (20 min.) George Lueddeke
 - 3) Meeting the needs of the diverse global community (20 min.) Joann Lindenmayer
 - 4) Open Panel Discussion (20 min.)
- WRAP UP & NEXT STEPS 10 min. Cheryl Stroud





Project Purpose

Address perhaps the most important social problem of our time: 'how to change the way humans relate to the planet and each other to ensure a more sustainable future for all life.'



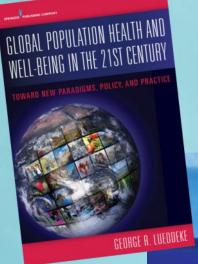


Project Rationale

Raise awareness about the social determinants of human-animal-environment interactions as well as the limitations presented by an unbridled human population expansion in the face of finite natural resources.







Needed Paradigm Shift

SDGs have succeeded in thinking 'beyond health and embrace a broad notion of sustainable development'

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Needed Paradigm Shift

but will we succeed in transforming the current view of conceptualising the world as a place made especially for humans and a place without limits our task is to subdue and exploit the earth??

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Needed Paradigm Shift

to adopting a new paradigm a new worldview that is 'compatible with our needs as human beings but also an outer world that is compatible with the needs of our ecosystem'?







Joann Lindenmayer, DVM, MPH Chair, One Health Commission Board of Directors



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- Cooperation, health, animal, environment, education, disease and humans were the most frequently cited words related to One Health
- Ecological and cultural/social sustainability were ranked as most important to One Health
- Zoonotic disease, environment, antimicrobial resistance, food security and availability and climate change were suggested most frequently as illustrative of the need for a One Health approach

*As of November 8, 2016; N=61 responses; not all respondents answered every question





 The most important factors contributing to One Health challenges were compartmentalization of health services and policies, lack of knowledge/understanding, lack of funding streams that encourage collaboration, overemphasis of treatment of individuals at the expense of populations, poverty/distribution of wealth/inequity, and political systems that support individual and corporate interests above all else

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- One Health K-12 education relates best to the following Sustainable Development Goals:
 - 3: Ensure healthy lives and promote well-being for all ages
 - 14: Conserve and sustainably use the oceans, seas and marine resources for sustainable development
 - 15: Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification and halt and reverse land degradation and biodiversity loss
 - 6: Ensure availability and sustainable management of water and sanitation for all

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- One Health K-12 education relates best to the following Sustainable Development Goals (cont.):
 - 2: End hunger, achieve food security and improved nutrition and promote sustainable agriculture
 - 11: Make cities and human settlements inclusive, safe, resilient and sustainable
 - 13: Take urgent action to combat climate change and its impacts
 - 12: Ensure sustainable consumption and production patterns
 - 4: Ensure equitable and inclusive quality education and promote lifelong learning opportunities for all

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Venn Diagram



Triad





 Values essential to One Health (> 60% response) are: cooperation, sustainability, diversity/biodiversity, responsibility, vision, understanding, leadership and competence



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- The following statements relate to One Health:
 - The health of humans, other animal species and plants cannot be separated
 - "Environment" includes natural and built environments
 - Humans have a moral imperative to address One Health challenges
 - One Health should be practiced so that there is not net (ecosystem) loss of biological diversity
 - One Health embraces the value of social interaction as a critical component of health and well-being
 - The WHO definition of "health" also applies to other animals and ecosystems
 - One Health recognizes the intrinsic value of life on earth regardless of a direct benefit to humans

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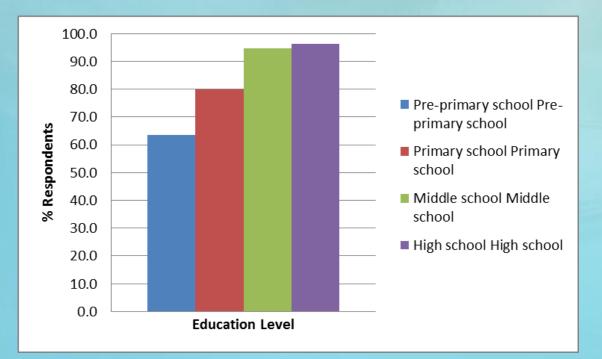
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 Based on experience, fewer than 20% of respondents believed that students were exposed to One Health and well-being concepts in colleges and universities, and fewer than 5% at at all educational levels below that



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% Respondents Who Believe Important to Introduce OH Concepts into Curriculum at Different Educational Levels





- A One Health-themed curriculum should be introduced into publicly-funded schools
- Students should learn collaboration, interdisciplinary thinking, problem-solving, systems thinking, and team-building in a One Healththemed educational program (>75% respondents)

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- Students should be exposed to all of the following concepts:
 - Role of natural and built environments in human and animal health and well-being
 - Respect for natural systems and human responsibility for planetary health
 - The connection between well-being and mental/physical health
 - Personal responsibility -- how individual actions impact One Health
 - Corporate, political and societal responsibility -- how their actions impact One Health
 - Climate change and health of the planet

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- Students should be exposed to all of the following concepts (continued):
 - Environmental contexts of One Health issues
 - Staying healthy and making good choices for the environment
 - "Cradle-to-grave" thinking



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- The main barriers to incorporating a One Health-themed program into K-12 education are lack of awareness/knowledge, lack of funds, overloaded curriculum, need for teacher training, and curricular issues (siloed topics, other)
 - Other notable responses were
 - The need for simple, concrete examples
 - Lack of innovation/curricular design
 - Lack of validated K-12 One Health curriculum
 - Lack of reference books for use in schools
 - Lack of pedagogical tools

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- Long-term outcomes were categorized as follows:
 - Increase in knowledge, understanding
 - Changes in attitudes
 - Changes in behaviors
 - Changes in skills
 - Products
- Stakeholder sectors that should be represented are government and its educational bodies, teachers and educators at all levels, teachers' associations, business/industry, health (human, animal, environment) institutes and government agencies

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- Potential funders were the Bill and Melinda Gates Foundation, UN agencies (including UNCP and UNESCO), the World Bank, USAID and DFID, the Rockefeller Foundation and a number of other private foundations
- Logistical challenges to scaling up a curriculum to a global level are cultural differences, different education settings and formats, technological changes, the need to demonstrate added value of pilot projects, and having real content, and the lack of a major driving force in One Health (we are now working in clusters)

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Discussion Session Instructions



Peter Costa, MPH, MCHES



DISCUSSION TOPICS

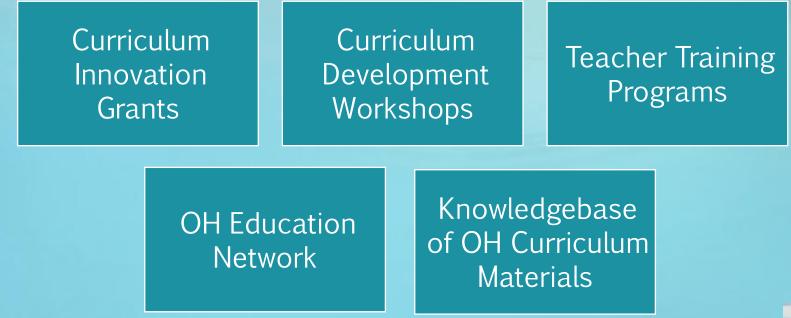
- 1) Strategies for K-12 One Health Curriculum Innovation (20 min.) – Gretchen Kaufman
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Gretchen E. Kaufman, DVM Council of Advisors, One Health Commission









Curriculum Innovation Grants for Educators

- Competitive grants to stimulate innovation by teachers or teams of educators
- Annual opportunity with changing One Health themes?
- Designed to meet guidelines that target values, skills and knowledge criteria using One Health approaches
- Emphasizes interdisciplinary engagement
- Forms basis for OH Education Network and mentor system





Curriculum Development Workshops For Teachers

- Summer workshops, with summer salary
- Annual opportunity with changing themes?
- Participation by "experts" in One Health and curriculum development to assist teachers in classroom applications
- Emphasizes innovative learning methods that target One Health values, skills and knowledge criteria
- Networking opportunity for sharing and mentoring





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Teacher Training Programs

- Curriculum development targeting new teachers (Courses, Modules)
- Creates opportunity for innovation from the ground up
- Creates opportunity for broad integration of One Health values across subjects
- Develops One Health skills and knowledge in teachers
- Enables global and regional adaptation to maximize benefits





Strategies for K-12 One Health Curriculum Innovation

One Health Education Network

- Directory of One Health Educators involved in the Program (and beyond)
- Facilitates communication between educators
- Facilitates collaboration on future projects
- Facilitates mentorship connections between educators and experts
- Acts as a platform for organizing meetings and presentations
- Provides mechanism for achieving Sustainable Development Goals through One Health





Strategies for K-12 One Health Curriculum Innovation

On-Line Knowledgebase of One Health Curriculum Materials

- Open access technology platform for sharing curriculum
- Repository for products of grant and/or workshop programs
- Enables contributions from a broader audience
- Provides an opportunity for feedback and dialogue
- Provides mechanism for achieving Sustainable Development Goals through One Health





Health Curriculum Innovation







Funding Considerations

George Lueddeke, PhD

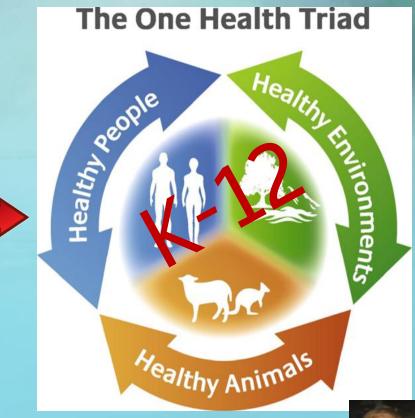
- Linking UN 2030 Sustainable Development Goals to *One Health* education initiatives
- Supporting projects through existing development mechanisms
- Possible funding sources





Linking UN 2030–Global Goals to K-12 *One Health and Well-Being* education









HABITAT III conference:

Humancentric vs Ecocentric?

ONE HEALTH?



More emphasis on • ALL LIVING SPECIES • PREVENTION • ADDRESSING FUTURE CHALLENGES





Global Networks (illustrative):

United Nations 193 Member States - 2 observer States WHO Collaborating Centers (>700) World Bank Global Learning Development Network (>120 institutions - 80 countries) The Commonwealth (53 nations)....

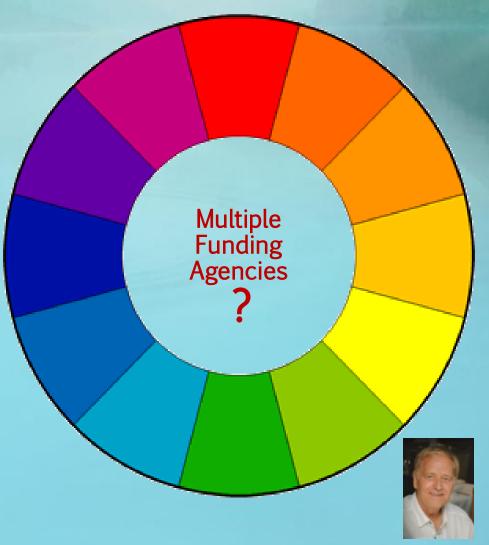






Possible Funding Sources

- Bill and Melinda Gates Foundation
- UN Agencies (WHO, UNDP, UNESCO, UNICEF)
- World Bank
- Rockefeller Foundation
- Department for International Development (UK)
- USAID
- European Union
- Wellcome Trust
- Other ?









Joann Lindenmayer, DVM, MPH





- Recap
 - Survey: respondents want to begin with high school students in publicly-funded schools
 - Main discussion points from this web conference
- Two phases of a proposal
 - Pilot phase
 - Scaling up and out





- Pilot phase models
 - Which pilot model to use?
 - Only in a single country, followed by adaptation in a subsequent phase
 - Two (or more) different countries at the same time, independent
 - Two (or more) different countries, twinned
 - Are there others?
 - What conditions are needed to support the success of a pilot program?
 - Country level
 - Institutional level
 - Individual level





- Scaling up and out
 - Presumes early measures of success: what might they be?
 - What would be an appropriate timeline for beginning this phase relative to beginning a pilot project?





OPEN PANEL DISCUSSION





Wrap Up- Next Steps:

Creating the World We Need through One **Health Education**

Cheryl Stroud, DVM, PhD























Cheryl Stroud, DVM, PhD

Wrap Up- Next Steps:

- Anticipated Time Line for proposal development
- Watch for future communications

















Thank You! For your interest, support and participation as we work

Preparing Society to Create the World We Need through One Health Education





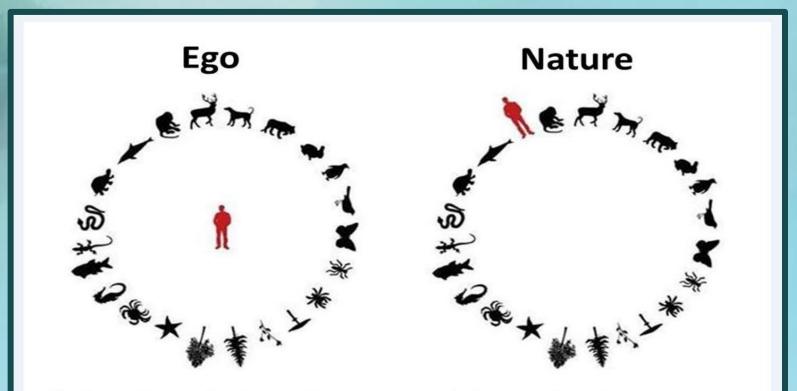
Thank You!!

To the One Health Education Task Force

Team Members: George Lueddeke (Chair) Joann Lindenmayer Gretchen Kaufman Cheryl Stroud Laura Kahn Lee Willingham Bruce Kaplan Tammi Krecek Lisa Conti







"A lot of people have this ego need that makes them want to believe that Earth is the centre of the universe and humans are the most important species, the supreme expression of creation." - Ann Druyan







One Health is a pathway to Planetary Health and Global *Security*





Anticipated Timeline



February/March: Targeted Proposal submission dates





One Health Commission Education Task Force

Watch for future communications

- Let us know of other colleagues / organizations who might like to support and participate in this effort
- Let us know if you have suggestions for an in-person (in-kind) meeting location in early January
- Follow the One Health community at:
 - The One Health Commission
 The One Health Initiative





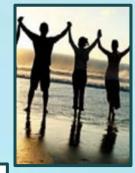
There is *Much* work to be done to make One Health the default way of thinking and doing business

















The World We Need

Preparing Society to Create the World We Need through One Health Education Online Conference: November 18, 2016

This concludes today's broadcast

