



New Technologies For Education

Using Appropriate Media, Sharing Best Practices

Background - 2014 Western Extension Directors Association Meeting

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NMSU's Media Productions and its **Learning Games Lab** have partnered with Extension specialists and researchers from more than 40 universities, agencies, and nonprofits on projects funded by USDA, NSF, DOE, and others. Media Productions' faculty, animators, web designers, programmers and videographers constantly update their expertise so that they can continue to provide the innovative outreach tools required in many successful grant proposals.

Whether finding best ways to infuse STEM learning into 4-H programs, giving homeowners a mobile tool for selecting xeric landscape plants, or motivating consumers towards healthier lifestyles, NMSU's work reflects research-based, lifestyle-appropriate solutions.

Selected Apps (all apps available at apps.nmsu.edu)



4-H Livestock Record (National 4-H) organizes market livestock project info on an iPhone/iPad and sends customized reports via email.



PowerPay Debt Elimination (co-developed with Utah) is aimed at helping debtors become savers.

- App available on Utah State's PowerPay site at powerpay.org



Lobster Diver (Maine Extension), a STEM educational app that has been accessed by almost 300,000 users.



Southwest Plant Selector features xeric landscape plants that thrive on little or no supplemental water.



Eat-and-Move-o-Matic, funded by National 4-H Council, downloaded 130,000 times, is now being expanded.

- Also playable online at 4-h.org/move-o-matic



e-Judging, usable nationally, provides 3 tools for easy calculation of contestant scores during livestock or consumer judging contests.



Volunteerica allows quick recording of volunteer hours & activities in a CSV file that can be exported for records or emailed to an administrator.

Animations, Video and Information Campaigns



Produce Safety Matters (w/North Carolina, Ohio, Florida) uses imaginary "purple fruit" to help growers, packers and retailers visualize ways to prevent cross-contamination of various fruits and vegetables.

- producesafetymatters.org



Don't Wash Your Chicken! (Drexel University), featured on NBC's Today Show, NPR's Morning Edition, CNN, CBS, and ABC.

- drexel.edu/dontwashyourchicken



Pathogens on Leafy Greens (Iowa and Ohio) visualizes new techniques for penetrating leafy structures to access microbes.

- fabe.osu.edu/kaletuncfpsi/animations



Stay Safe With Horses (eXtension HorseQuest) uses a virtual horse to introduce basic horse behavior and handling.

- staysafewithhorses.org

Games and Interactive Simulations



Ninja Kitchen (Rutgers) is a sophisticated and beautiful game that helps food safety principles become second nature to 4-Hers.

- najakitchengame.org



Math Snacks (National Science Foundation) games, animations and apps to teach STEM conceptual learning (400,000 cumulative downloads).

- mathsnacks.org



Virtual Labs (North and South Dakota) uses interactive food science virtual labs to teach basic laboratory techniques.

- virtuallab.nmsu.edu



Treadsylvania (National 4-H), featured on the popular *kongregate.com*, is an online graphic novel game teaching novices how to safely ride an ATV.

- treadsylvania.com



Eat It Tweet It (Arizona) lets users track their own food behavior on Twitter to better understand what they eat – and why.

- eatittweetit.com



Because I Care, I Wash My Hands (Michigan) uses stories, games, experiments, video and songs to teach handwashing.

- handwashing.nmsu.edu



Safe Preparation of Beef Jerky is an interactive guide that maps food safety methodology for various methods of preparing beef jerky.

- aces.nmsu.edu/ces/foodtech



Science of Soil (USDA-funded) helps learners understand key agricultural and math concepts with fun animations and interactive gadgets.

- scienceofsoil.com