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Subject: Welcome to the renewed NC1034! Call for papers for Dec 3-4 ONLINE conference.
Date: Tuesday, October 19, 2021 12:51:35 PM

NC1034 Multistate Research Project "Impact Analyses and Decision Strategies for Agricultural Research"

Call for Papers: ONLINE research workshop

Advances in Agricultural Technology, Productivity, and Sustainability

December 3 and 4, 2021

ONLINE

Dear Colleagues,

I am pleased to inform you that our *renewed* NC1034 project has just begun as of October 2021, and will run for a five-year period until September 2026.

I am also pleased to announce the 2021 annual research conference and business meeting, to be held **December 3 and 4, 2021** in a completely **online** format.

Call for Papers:

By Friday October 29, 2021, please email abstracts (250 words) or session proposals (750 words, for three or more related papers) to:

Gregory Graff ggraff@colostate.edu

The NC1034 community has not met in person for two years. Our planned April 2020 conference was cancelled at the onset of the pandemic. We held our 2020 business meeting online later in the year to focus on our proposal to renew NC1034 for another 5-year term. A couple options were considered for an in person conference in 2021, but due to ongoing pandemic uncertainties and member feedback regarding travel preferences, we are defaulting to an online meeting for 2021. While much of the value of our multistate research project arises from the personal connections that happen best when we gather in person, we will have to make do in the online world until it is once again safe for all to travel and meet in person.

The NC1034 multistate research project ***Impact Analysis and Decision Strategies for Agricultural Research*** is an invigorating scholarly community of over 40 agricultural and resource economists and rural sociologists, from more than 20 major U.S. research universities, the USDA, and international organizations that comes together for communicating and coordinating cutting-edge economic and other social science research on science policy, R&D investment, innovation, adoption, and technological change in

agriculture.

Papers related to the following topics are encouraged (drawing from our new NC1034 Statement of Issues):

1. **Understanding how R&D, innovation, and new technologies facilitate adaptive responses to change in markets, policies, and the physical environment:**
    - How does agricultural R&D and innovation respond to the ever-changing climate, pest, disease, food safety, and biosecurity challenges characterized by the emergence of adaptive dynamics?
    - How does agricultural R&D and innovation respond to global challenges, such as climate change or pandemics? When and how do private incentives arise for innovation to meet these very public challenges? What is and what should be the role of international public institutions (e.g. CGIAR) in addressing these challenges?
    - How does agricultural R&D and innovation respond to evolving public perceptions of different of farming technologies and production systems? What is the role of government in regulating those technologies and production systems relative to evolving public perceptions?
    - How does agricultural R&D and innovation respond to the emergence of new technological opportunities—such as those created by genome editing, precision data collection, or artificial intelligence and machine learning?
    - How does U.S. agricultural R&D respond to increasing competition from China, India, and Brazil and the increasing size and sophistication of their agricultural R&D and production capacities?
    - How does agricultural R&D respond to the introduction of new products that substitute for traditional product categories (such as dairy and meat substitutes)?
2. **Understanding the research and development (R&D) institutions and processes that contribute to innovations in food and agriculture:**
    - Who is doing R&D and innovation for agriculture and why? What are the returns to R&D? Who is financing R&D? How is the structure of R&D changing, and why?
    - What are the roles of intellectual property and regulations in incentivizing, constraining, and otherwise shaping both public and privately funded R&D?
    - How does technology transfer affect the performance of the innovation supply chain, connecting research labs with development (whether in agricultural research stations, start-ups, or corporations), commercialization, marketing, extension, and the demand side of farmers and beyond?
3. **Understanding the technology adoption and diffusion processes that bring innovations into commercial practice:**
    - What determines the adoption and dis-adoption of different technologies? What are potential patterns of spatial and social diffusion?
    - What are the mechanisms by which technologies are introduced to farmers, whether through extension and private channels? And how effective are they?
    - How are consumer preferences, public perceptions, and private food industry standards and practices influencing technology adoption upstream by farmers?
    - To what extent is technological diffusion affected by the growing prevalence of contractual relationships in agriculture?
    - What are the drivers and barriers of international agricultural technology diffusion?

How does adoption of technologies in foreign markets affect U.S. technology providers as well as U.S. farmers?

4. **Evaluating the impacts of research and innovation along multiple dimensions:**
    - How do we characterize and measure productivity changes? How do we account for non-market or public goods & bads in productivity measures? How important are these aspects and other omissions from the widely used productivity measures?
    - How are new information technologies and data systems likely to change agricultural value chains? What is the value and ownership structure of emerging data? What is their effect on integration of agricultural value chains?
    - How much does research contribute to rural development and increase the wellbeing of rural America?
    - Who are the winners and losers that result when an innovation is introduced? How are those losses absorbed? How might the incidence of losses generate opposition, economically or politically?
    - How do we understand, measure, and value the impact of new technologies on sustainability and resilience of resources on which agriculture depends?
    - What are the interacting effects of productivity change and climate change on global food security? What are potential carbon policy impacts on agricultural and food systems? What are potential changes in energy production and energy use by agriculture?

Cultural Opportunities: An informal online happy hour will be included in the schedule of events on Dec 3-4.

I am sure everyone looks forward to catching up on the latest developments in our research. Be sure to submit your abstract early to assure a space on the program.

Cheers,

Greg

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