

**Committee on Agriculture
U.S. House of Representatives
Information Required From Nongovernmental Witnesses**

House rules require nongovernmental witnesses to provide their resume or biographical sketch prior to testifying. If you do not have a resume or biographical sketch available, please complete this form.

1. Name: Moses T. Kairo

2. Organization you represent: University of Maryland Eastern Shore

3. Please list any occupational, employment, or work-related experience you have which add to your qualification to provide testimony before the Committee: _____
Dean, Research Director, Extension Administrator, UMES 2012-Current
Director, Center of Excellence for Global Food Security and Defense

4. Please list any special training, education, or professional experience you have which add to your qualifications to provide testimony before the Committee: _____
Ph.D. University of London
M.Sc. DIC Imperial College, London
B.Sc. University of Nairobi

5. If you are appearing on behalf of an organization, please list the capacity in which you are representing that organization, including any offices or elected positions you hold: _____
Dean, Research Director, Extension Administrator, UMES 2012-Current

**PLEASE ATTACH THIS FORM OR YOUR BIOGRAPHY TO EACH COPY OF
TESTIMONY.**

Moses T.K. Kairo
Professor and Dean, School of Agricultural and Natural Sciences,
University of Maryland Eastern Shore

Biographical Sketch

Moses Kairo was appointed professor, dean and Director of Land Grant Programs in the School of Agricultural and Natural Sciences (SANS) at the University of Maryland Eastern Shore (UMES) in 2012. He provides leadership to UMES Research and Extension efforts in agriculture, natural resources and the environment as well as three academic departments. He is also the Director of the 1890 Center of Excellence for Global Food Security and Defense.

Prior to joining UMES, Moses spent nearly seven years at Florida A&M University as a professor of entomology and director of the Center for Excellence in Biological Control, and as the associate research director for 1890 programs. Moses started his career as an entomologist in 1985 with the Kenya Agricultural Research Institute before joining what is now known as CABI, where he served in various capacities, starting as an entomologist at CABI's base in the United Kingdom and culminating with leadership of the organization's activities in the Caribbean and Latin America region. Moses is also a courtesy professor in the Department of Entomology and Nematology at the University of Florida.

His research interests have focused on biological control, invasive species management and crop protection. Over the years, he has carried out work in many countries in Africa, Europe, the Middle East, Latin America and the Caribbean. Moses has also undertaken consultancy work with several international organizations including the United Nations Food and Agriculture Organization. He has also secured many grants and published his work widely. Moses continues to serve the land-grant community through various bodies or committees of the Board of Agriculture Assembly of the Association of Public and Land-Grant Universities. He is the immediate past Chair of the Experiment Station Committee on Policy (ESCOP). Moses received his Doctor of Philosophy degree in entomology from the University of London, a Master of Science degree in applied entomology from Imperial College, London and a bachelor's degree in zoology from the University of Nairobi, Kenya.

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EDUCATION:

- 2011** Fellow- Food System Leadership Institute.
1997 Entomology, University of London, UK, PhD.
1989 Applied Entomology, Imperial College London, M.Sc. With Distinction
1989 Applied Entomology. Imperial College London, DIC.
1985 Zoology, University of Nairobi, B.Sc. First Class Honors
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PROFESSIONAL EXPERIENCE:

- 2012-Present: Professor, Dean and Director of Land Grant Programs, School of Agricultural and Natural Sciences (SANS), University of Maryland Eastern Shore (UMES)
- 2009-2012: Associate Research Director, FAMU 1890 Land Grant Research Program
- 2009-2012: Professor/Director Center for Biological Control - FAMU
- 2005-2008: Associate Professor/Director, Center for Biological Control - FAMU
- 2003-present: Courtesy Associate Professor and Graduate Faculty, University of Florida
- 2001-2005 Director/Regional Representative, CAB International, Caribbean and Latin America Regional Center, Trinidad and Tobago.
- 1996-2000: Scientist-in Charge, CAB International -CABI Bioscience, Caribbean and Latin America Regional Center, Trinidad and Tobago.
- 1991-1996: Entomologist and Project Sub-manager – International Institute of Biological Control (IIBC), UK Center, United Kingdom.
- 1989-1990: Research Officer, Kenya Agricultural Research Institute (KARI).
- 1985-1989: Assistant Research Officer, KARI.
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RESEARCH INTERESTS:

Biological control – implementation and policy, integrated pest management, invasive species biology and management, international development, sustainable agriculture and natural resource management.

TEACHING EXPERIENCE:

- Supervised undergraduate and postgraduate student research. Major Professor of 4 Ph.D., Major Professor, 2 M.S. Students and on committees for several others.
 - Conducted training courses in Kenya, UK, Trinidad and Tobago, Dominica, Venezuela, Yemen, Belize and USA.
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PROFESSIONAL ACTIVITIES:

- 30+ years experience in research and development, outreach and teaching.

- Over 20+ years experience in administrative and scientific management including multidisciplinary, multi-stakeholder initiatives in agriculture and natural resource management.
 - Participated in several national/international committees and expert working groups.
 - 2021-Present - Board Member - Northeast Regional Center for Rural Development
 - 2021-2022 - Chair ESCOP-CAC Finance Committee
 - 2020-2021 -Chair ESCOP/ESS, Association of Public and Land Grant Universities
 - 2016-2020 - 1890 Universities Foundation (Founding Board Member)
 - 2016-2018 - Chair - Agricultural Research Directors Inc. (ARD Inc.)
 - 2013-2016 and 2022-Present - Executive Committee (Co-Chair) USDA/1890 Taskforce
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INTERNATIONAL EXPERIENCE:

- Carried out project work/study tours/training/consultancies/attended conferences in over 40 countries in Africa; Europe, Asia Caribbean North and South America, and Oceania.
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MEMBERSHIPS AND PROFESSIONAL SOCIETIES:

- Life Member of the Entomological Society of Southern Africa
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RECENT RECOGNITION

- 2021 – Appointed to a National Academy of Sciences Blue Ribbon Panel on Enhancing Coordination Between Land-Grant Universities and Colleges.
 - 2016 – Abraham Lincoln Honor Award by Secretary of Agriculture to the USDA/1890 Universities Taskforce
 - 2011 – Fellow – Food Systems Leadership Institute
 - 2011 - USDA award for contributions to exploratory work on a major pest threat to the U.S.
 - 2010 –Southern Region IPM Center: Annual Friends of IPM Award to the FAMU CBC Team Led by M. Kairo
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SELECTED RECENT PUBLICATIONS:

Cock, M.J.W.; Murphy, S.T.; **KAIRO, M.T.K.**; Thompson, E.; Murphy, R.J. and Francis, A.W.

(2016) Trends in classical biological control of insect pests by insects: an update of the BIOCAT database. *Biocontrol* 61: 349-363.

Kariuki, E.M., Hix, R. L., Hight, S.D., Reitz, S.R. and **KAIRO, M.T.K.** 2016. Influence of sun and shade conditions on *Gratiana boliviana* (Coleoptera: Chrysomelidae) abundance and feeding activity on tropical soda apple (Solanaceae) under field conditions. *Florida Entomologist* 99 (3) 552-554.

- German-Ramirez, E, **KAIRO M.T.K.**, Stocks, I., Haseeb, M. and Serra, C. 2014. New record of *Hypogeococcus pungens* (Hemiptera: Pseudococcidae) in the Dominican Republic with comments on specific characters. *Florida Entomologist*. 97 (1) 320-321.
- KAIRO M.T.K.**, Paraiso, O., Peterkin, D.D., and Gautam, R.D. 2013. *Cryptolaemus montrouzieri* (Mulsant) (Coccinellidae: Scymninae): A Review of Biology, Ecology, and Use in Biological Control with Particular Reference to Potential Impact on Non-Target Organisms. *CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources* 8, No. 005 1-20.
- Paraiso, O., Hight, S., **KAIRO M.T.K.** and Bloem, S. 2013. Host Specificity and Risk Assessment of *Trichogramma fuentesi* (Hymenoptera: Trichogrammatidae), a Potential Biological Agent of *Cactoblastis cactorum* (Lepidoptera: Pyralidae). *Florida Entomologist* 96 (4) 1305-1310.
- Roda, A., Francis, A., **KAIRO, M.T.K.**, and Culik, M., 2013. *Planococcus minor* (Hemiptera: Pseudococcidae): Bioecology, Survey and mitigation strategies. In, *Potential Invasive Pests of Agricultural Crops.*, Publisher: CAB International, Editors: J. Peña, pp.288-300
- Nagoshi, R. N., Paraiso, O., Brambila, J., and **KAIRO M.T.K.** 2013. Assessing the Usefulness of DNA Barcoding to Identify *Oxycarenus hyalinipennis* in Florida, a Potentially Invasive Pest of Cotton. *Florida Entomologist* 95: 1174-1181.
- Paraiso, O., **KAIRO M.T.K.**, Hight, S., Leppla, N., Cuda, J., Olexa, M., and Owens, M. 2013. Opportunities for Improving Risk Communication during the Permitting Process of Entomophagous Biological Control Agents-Review of Current Systems. *BioControl* 58: 1-15.
- Francis, A.W., **KAIRO, M.T.K.**, Roda, A.L., Liburd, O.E. and Polar, P. (2012) The passion vine mealybug, *Planococcus minor* (Maskell) (Hemiptera: Pseudococcidae), and its natural enemies in the cocoa agro-ecosystem in Trinidad. *Biological Control* 60: 290-296.
- Francis, A.W., **KAIRO, M.T.K.**, and Roda, A.L. 2012. Developmental and reproductive biology of *Planococcus minor* (Hemiptera: Pseudococcidae) under constant temperatures. *Florida Entomologist* 95(2) 297-303.
- Fiaboe, K.K.M., Peterson, A.T., **KAIRO, M.T.K.** and Roda, A.L 2012. Predicting the potential worldwide distribution of the red palm weevil, *Rhynchophorus ferrugineus* (Oliver) (Coleoptera: Curculionidae) using ecological niche modelling. *Florida Entomologist* 95 (3) 659-673.
- Fiaboe, K.K.M., Mankin, R.W., Roda, A.L., **KAIRO, M.T.K.** and Johanns, C. (2011) Pheromone-food bait trap and acoustic surveys of *Rhynchophorus ferrugineus* (Coleoptera: Curculionidae) in Curacao. *Florida Entomologist* 94 (4), 766-773.
- Haseeb, M., **KAIRO, M.T.K.** and Flowers, R.W. 2011. New approaches and possibilities for invasive pest identification using web based tools. *American Entomologist* 57 (4) 223-226.
- Roda, A.; **KAIRO, M.**; Damian, T.; Franken, F.; Heidweiller, K.; Johanns, C.; Mankin, R.; (2011) Red palm weevil (*Rhynchophorus ferrugineus*), an invasive pest recently found in the Caribbean that threatens the region. *Bulletin OEPP/EPPO Bulletin*, 2011, 41, 2, 116-121.
- Mankin, R.W., Hagstrum, D.W., Smith, M.T., Roda, A.L. and **KAIRO, M.T.K.** 2011. Perspective and Promise: a Century of Insect Acoustic Detection and Monitoring. *American Entomologist*, 57(1) 30-44.