HUMAN CAPACITY BUILDING AT UNIVERSITY OF NAIROBI FACULTY OF AGRICULTURE

- Faculty was started in 1970
- Faculty vision: To be a leading and vibrant centre of excellence in sustainable agriculture, food, nutrition and environmental sciences and stewardship
- Faculty mission: teaching, training, research, agricultural consultancy and outreach service
Departments

- Department of agricultural economics
- Department of Plant Science and Crop Protection
- Department of Food Technology and Nutrition
- Department of Land Resource Management and Agricultural Technology
- Department of Animal production
- Field station
UNDERGRADUATE PROGRAMMES

• Bsc (Agriculture)
• Bsc (Food science and Technology)
• Bsc (Food Nutrition and Dietetics)
• Bsc (Range Management)
• Bsc (Management of agro ecosystem and Environment)
• Bsc (Agribusiness Management)
• Bsc (Agricultural Extension and Education)
• Bsc Horticulture
POSTGRADUATE PROGRAMMES

- Msc Food Science and Technology
- Msc Applied Human Nutrition
- Msc Plant Breeding
- Msc Horticulture
- Msc Agronomy
- Msc Agricultural Resource Management
- Msc Crop Protection
- Msc Plant Pathology
POSTGRADUATE PROGRAMMES (continue)

- Msc Agricultural Economics
- Msc Soil Science
- Msc Range Management
- Msc Livestock Production Systems
- Msc Poultry Sciences
- Msc Animal Nutrition and Feed Sciences
- Msc Animal Genetics and Breeding
Postgraduate programmes (Continue)

• Msc in Agricultural information and Communication management
• Postgraduate Diploma in Agricultural information and communication management
• Ph D Degrees offered in all Departments
• Ph D in Dryland Resource management
• Certificate course in Agricultural information and communication management
• Certificate and Diploma course in Crop Protection
CURRENT RESEARCH AREAS

1. Department of Plant Science and Crop Protection:-
   i) Gray leaf spot disease of maize- Ruforum
   ii) Dissemination and maintenance of sweet potato varieties- Ruforum
   iii) Integrated cassava mosaic and Brown streak virus- Ruforum
   iv) Promotion of potato sprouting- PRAPACE
   v) Head bright of wheat- IFS
Continue

- Insect resistant maize varieties - CIMMYT
- Traditional food crops
- Quality protein maize cultivars - IDA/GOK
- Maize streak virus resistance of maize lines - CIMMYT
- Resistance to drought and low soil fertility in maize
Continue

- Striga in sorghum- GTZ/BMZ
- Sorghum tolerance to drought- ASARECA
- Collaborative bean research- CIAT, USAID, ECABREN
- Methyl bromide alternatives- UNDP/GTZ/UON
2. Department of food Science and Nutrition

- Food based interventions in combating malnutrition
- Use of ionizing radiation in processing raw materials
• Food fortification
• Food product development
• Design, operation and control of efficient food processing plants
• Energy use and conservation in food processing plants
• Waste management in food processing plants
• Food fermentation and biotechnology
(Continue)

- Storage, processing and utilization of indigenous foods
- Social/anthropological/community nutrition and health
- Human rights in nutrition and health
- Reproductive health
- Food safety
- Camel milk science and technology
- Applied human nutrition
3. DEPARTMENT OF LARMAT

- Making the best of climate: adapting agriculture to climate variability
- Grazing patterns and livestock productivity in agropastoral production systems in Kenya
- Exploring strategies for soil fertility improvement and crop production in Kenya
- Estimation of above and below ground carbon stocks in selected land use patterns
- Urban waste management
(Continue)

- Urban and peri-urban agriculture

4. Department of Agricultural economics
- Cattle and small ruminant breeds utilization and assessment of the impact of breeding schemes on livestock productivity in East and Central Africa- ASARECA/ILRI
- A gender differentiated analysis of the profitability and constraints in use of improved fallows in Western Kenya- ASARECA
Research products

- 7 dry bean varieties at NPT in year 2006
- NPP 670 pigeon pea variety released
- Mac 64, MAC 13, MAC 34 climbing bean varieties released in year 2006
- KON 1, KON 4, KON 6, KON 7 onion varieties release in 1994
COLLABORATION, PARTNERSHIP AND NETWORKING

• TRAINING
  i) Building capacity in Nematology - East Africa Universities – Gatsby Foundation
  ii) Msc Agricultural and applied economics
  iii) Msc in entomology, soil science - distance learning - UON/University of Florida
• Ph D in Dryland Resource management
• Msc in Range management
(Continue)

- Farm practice- MOA, Private companies, IARCs, NARS, NGOs
- Industrial attachments- food industries
- Internships- ?
  - KARI- postgraduate training
  - MOA- postgraduate training, Farm practice

Partnership

i) KAPP- review of KAPP proposals
ii) PCPB- data for registration of pesticides
Advisory services

- Diagnostic laboratories for diseases and pests
- Soil analysis laboratory
- Food nutrient analysis laboratory
- Field and laboratory testing of Pesticides
- Field station - crop production
Our strength

• Oldest Faculty of agriculture in the country - has a lot of linkages and collaboration in national and international systems
• Most academic staff in any university in Kenya (80 lecturers - 70 have Ph Ds)
• A pool of most diverse expertise in agriculture, nutrition and environment disciplines in the country
• Main faculty of agriculture in Kenya involved in regional training and research programmes
Final comments

• To improve farm practice, industrial attachment and other linkages with the industry
• To encourage lecturers-students-industry linkage for their research and funding
• To develop and execute proposals with the industry
• To continue to develop and involved in collaborative research for funding by ASARECA, RUFORUM, KAPP, EU, VICREST etc
Continue

• To create interdisciplinary consultancy teams and specific consultancies in departments to help solve problems facing the industry
• Emphasis on doing research for the industry
THANK YOU

Prof J. H. Nderitu