North Korean Agriculture: Role of PUST on the Agricultural Rehabilitation & Food Security

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Korean: [http://pust.or.kr/](http://pust.or.kr/)
English: [http://pust.kr/](http://pust.kr/)
Newly Constructed and Recently Opened PUST Campus (2010)
PUST History

2001
- Establishment Contract (May 2)
- Construction Contract, JungJin Architecture (Responsible for Incheon International Airport) (September 11)
- Ministry of Unification Approval Notice of Joint Entrepreneur and Projects (June 5)

2002
- PUST Founding Committee (December 10)
- Groundbreaking Ceremony (June 12)

2005
- Collaboration Agreement (with KAIST, KISTI, and other international and Korean universities)

2006
- 4th Academic Conference (YUST, July 30 ~ August 4)

2009
- PUST Construction (March)
- PUST Co-Operations President Inauguration & Grand Opening (September 16, 2009)

2010
- Opening of the Undergraduate & Graduate Classes (2010)
Academic Departments

1. **ECE** (Electrical and Computer Engineering)
2. **IFM** (International Finance and Management)
3. **ALS** (Agriculture and Life Science)
4. **BE** (Basic Education)
   
   ---- upcoming ----

5. **AEC** (Architecture, Engineering and Construction)
6. **PHES** (Center for Public Health and Environmental Science)
7. **IC** (Industrial Cluster)
Faculty Information

1. English Instructors: Bachelor’s degree required to teach undergrads; Master’s degree to teach grad students
2. Full time Professor: Teach/train at YUST for one year, then teach/reside in Pyongyang
3. Adjunct Professor: Affiliated in prestigious universities or research institutes who come to teach for at least one semester in their sabbatical year or research year
4. Visiting faculty: Distinguished Professor, Emeritus Professor, or Visiting Professor
North Korea

• Geographical Location: Latitude: 38 to 43 degree North
  Longitude: 124 to 131 degree East

• Total Land Mass: 12.2 Million HA of Rugged
  Mountainous terrain

• Arable Land: 2.2million HA (18%), Flatland is
  located at both coasts. Especially at Western Seaboard

• Population: 24Million

• Economy: Socialistic Central Planning System
North Korean Administrative Map
Major Crop

STAPLE FOOD

• Paddy: 570,000 HA ; Rice
• Upland: 503,000 HA ; Corn

  103,000 HA ; Wheat, Barley & other Cereals
  181,000 HA ; Potato
  320,000 HA ; Orchards & Mulberry

  ? Soybean & Minor Crops
  ? Vegetables

FIBER CROP

Upland: 5,500 HA ; Cotton

  ? Hemp
  ? Mulberry/Sericulture
Food security Threat in North Korea & Global Community

• 1.4 Billion People are Vulnerable of Hunger
• A child is Dying Every 30 Seconds
• Over 2 Million People Perished in North Korea

• Necessary to Implement Bio Diversity
• Re assess the conventional Farming
• Improve Sustainability
• Conserve inputs and Improve Efficiency
• Conserve Energy and Water
• New crop & New Livestock Search
• Plant Protein Improvement
• New approach to Improve Nutritional Value
Sustainable Community Development through Sustainable Agriculture

Seed Improvement; Tissue Culture
  Molecular Assisted Breeding
  Genetic Engineering

  • Organic Fertilizer Implementation
  • Bio Fertilizer
  • Bio Pesticides
  • Crop & Production Management; SRI, Cover Crops
  • Conservation Agriculture
South Korean Rice Variety Trial
September 2008
South Korean Rice Variety Trial
September 2008
US Corn Hybrid Adaptation Trial at Wonwha
September  1996
Winter Vegetables in Greenhouse
Chonduk-ri  May 2011
Potato – Cotton Inter Cropping
Dochi-ri  June, 2011
Pruning Cotton at Flowering Period
Ryonpyong-ri, July, 2007
100 HA Cotton Field at Harvest
Chonduk-ri October, 2010
Former Director of Genetic Resources Bank of DPRK
Helping Field Trials at PUST Campus
September, 2010
Discussing US Corn Inbred Increase & Breeding Program with Professor Shank

June 2011
President James Kim with Jay Witmeyer & Kim Joo
September 1986
Professors arriving at Pyongyang Sunan Airport
October 2010
New Students Orientation at PUST
May 2011
Whole Campus Personnel Meals Together
May, 2011
Students & Faculty Interaction outside of Class

June, 2011
ALS Graduate Students at Field with Prof Shank
June 2011
PUST can be the Hub for NK Agricultural Rehabilitation

Leadership Training
Scientist & Professional Cultivation
Technology Development
Research & Development Institution
Extension Services
Implementation of new technology
Food Security
Economic Stability
Peace on Earth
Challenge is Yours to Take !!

Getting Involved

• Volunteer as faculty (as mentioned above)
• Support through prayer and/or donations
• Intern at YUST PUST Foundation
• Donate: Online at yustpust.org or send check payable to “YPF” to YPF, PO Box 336, Winnetka, IL 60093
• E-mail questions to yustpust@gmail.com
• Learn more at yustpust.org
New Homes at Chonduk-ri /Gift from South-North Sharing Campaign of SK

May 2011