

Peanut research activities around the world

Dr. Yen-Con Hung

Professor

Department of Food Science and Technology

And

Center for Food Safety

And

Food Product Innovation & Commercialization Center

The University of Georgia

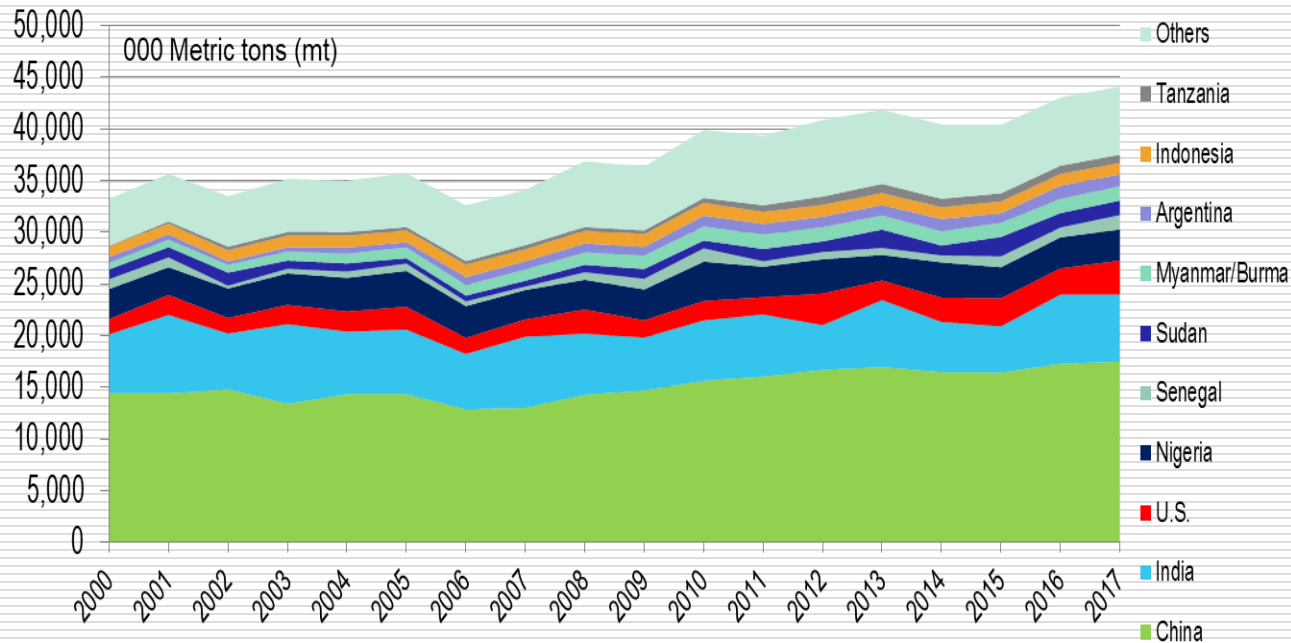
September 18, 2018

Hot Topics on Peanuts

Savannah, Georgia

Top Global Peanut Producers 2000- 2017

- ❑ World peanut production exceeded 44 million metric tons by the top 42 producers in 2017.
- ❑ Total production increased 11% during 2010-17, while U.S. production increased 74% during this period.
- ❑ The U.S. moved to third place among global producers behind China and India in 2017, surpassing Nigeria, according to USDA estimates. Among other producers, Sudan saw 83% growth, Brazilian production doubled and Turkey's production increased 49%.



Source: USDA PSD data, Feb 2018, Market Solutions LLC analysis



UNIVERSITY OF
GEORGIA

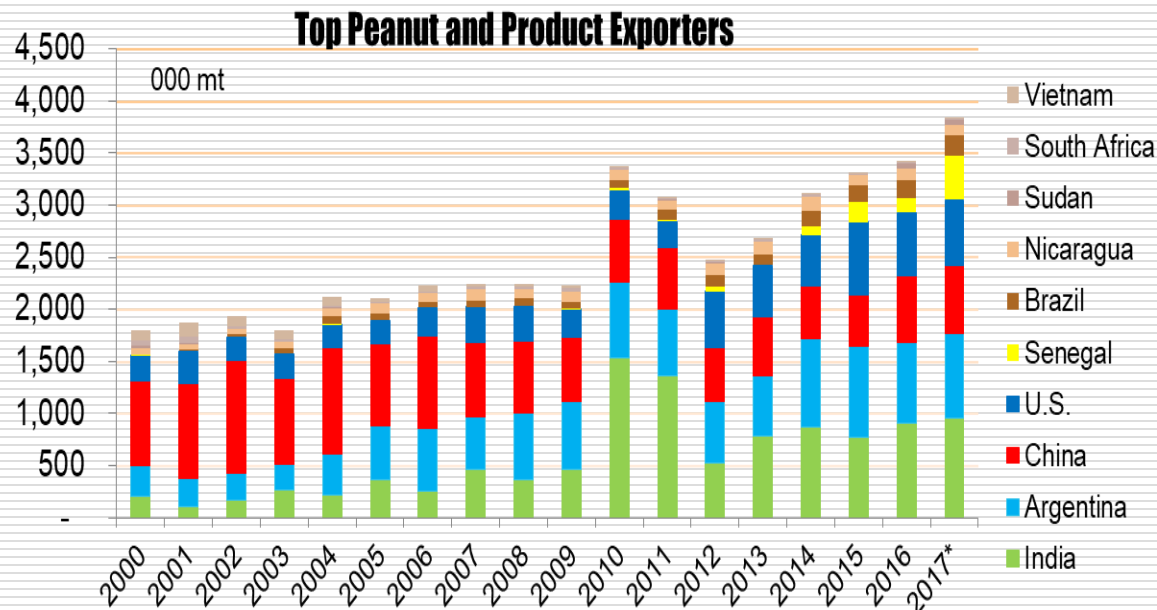
Provided by Stephanie Grunenfelder, American Peanut Council



Export Competition: Top Peanut and Product Exporters

(Provided by Stephanie Grunenfelder, American Peanut Council)

- In April, USDA projects 3.69 million metric tons (mmt) of global peanut and product exports during 2017/18, down 1.4% from 2016/17, and more than 13% below its February forecast.
- While U.S. exports are still projected to increase only 5.5%, export competitiveness of the 2017 U.S. peanut crop can potentially improve with challenges facing producers in other markets. Argentina is facing the worst drought in decades, and USDA's April 2018 forecast is for a 32% drop in production, with exports down slightly. Export declines are also forecast for India (9%), Brazil (2%) and Senegal (4%). It should be noted that while official USDA statistics suggest a decline in India's exports, the post recently changed its forecast to 1 mmt, 17% higher than the official figure. Imports are projected to increase in China (19%), Vietnam (14%) and Indonesia (3%).
- Among the top global exporters, U.S. sales increased 152% during 2012-16/17, while Senegal's exports were up five fold, Brazil's increased 85%, Argentina's were up 40%.
- While China's exports have fallen sharply over the last decade, they recovered substantially in 2016/17 and are expected to increase 5% during the current marketing year.



Source: USDA PSD View data and *forecast, Feb 26 2018, Market Solutions LLC analysis



Major peanut research institute around the world

- USA:
 - University of Georgia Peanut Team (Presented at the 2016 Hot Topics on Peanuts)
 - USDA ARS Market Quality and Handling Research Unit, Raleigh, NC
 - National Peanut Research Laboratory, Dawson, Ga
- India:
 - ICAR-Directorate of Groundnut Research, Junagadh - Radhakrishnan T (Director)
 - ICRSAT, HQ in Hyderabad - Janila Pasupuleti (peanut breeder).
- China
 - Oilseeds Processing & Quality Regulation Innovation Team at the Institute of Food Science and Technology, Chinese Academy of Agricultural Sciences
 - Peanut research lab, Hanan Academy of Agricultural Sciences
 - National peanut research institute, Shandong Academy of Agricultural Sciences
- Africa:
 - Senegal - ISRA-Bambey (Issa Faye); CERAAS-Thies (Daniel Fonceka)
 - Mali - IER-Bamako; ICRISAT-Mali (Ramadjita Tabo)
 - Niger IER-Niamey; ICRISAT-Niger (Falalou Hamidou)
 - Ghana - CSIR-CRI Kumasi (Moses Mochiah); CSIR-SARI Tamale (Mumuni Abdulai)
 - Nigeria - IER-; ICRISAT-Kano (Hakeem Ajeigbe)
 - Malawi - DARS-Chitedze (Justus Chintu); ICRISAT-Malawi (Patrick Okori)
 - Mozambique - IIAM-Namula (Amade Muitia)
 - Uganda - NARO-NASARRI (David Okello Kalule)
 - Zambia - ZARI-Chipata (Lutangu Makweti)
 - Zimbabwe - ICRISAT-Bulawayo (Kazito Mazvimavi)



International Crops Research Institute for the Seim-Arid Tropics (ICRSAT)

- Focus on dryland crops
 - Legumes: Chickpea, Pigeonpea, groundnut
 - Nutri-cereals: Sorghum, pearl millet, finger millet
- Germplasm and improved varieties, seed systems, on-farm technologies and practices, landscape management, postharvest technologies and practices
- With research facilities located in Asia (working across the states in India, as well as in a number of countries in Asia, such as China, Thailand, Vietnam, Cambodia, Philippines, Myanmar and Nepal), West & Central Africa (Country offices in Mali (Regional hub), Niger and Nigeria), Eastern & Southern Africa (Country offices based in five countries — Kenya (Regional hub), Malawi, Ethiopia, Zimbabwe and Mozambique — as well as in Tanzania, Uganda, Sudan and Eritrea)



Indian Council of Agricultural Research (ICAR)

- ❑ Directorate of Groundnut Research, ICAR at Junagadh, India. Radhakrishnan T (Director)
- ❑ This institute was established in 1979 to conduct research on enhancing productivity of groundnut in India.
- ❑ Varietal development, development of package of practices, groundnut production and protection technologies and transgenic development having tolerance to various biotic and abiotic stresses.
- ❑ Transfer research findings to the farmers and technology commercialization.



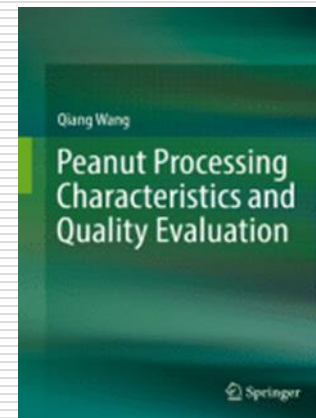
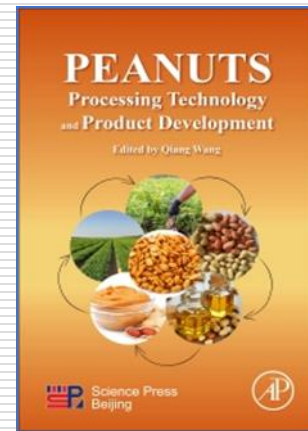
Oilseeds Processing & Quality Regulation Innovation Team Institute of Food Science and Technology, CAAS

□ Dr. Qiang Wang, Deputy Director, Institute of Food Science and Technology, Chinese Academy of Agricultural Sciences

□ President, Chinese Peanut Food Association, CCOA

□ Chinese Peanut Food Association of CCOA (中国粮油学会花生食品分会)

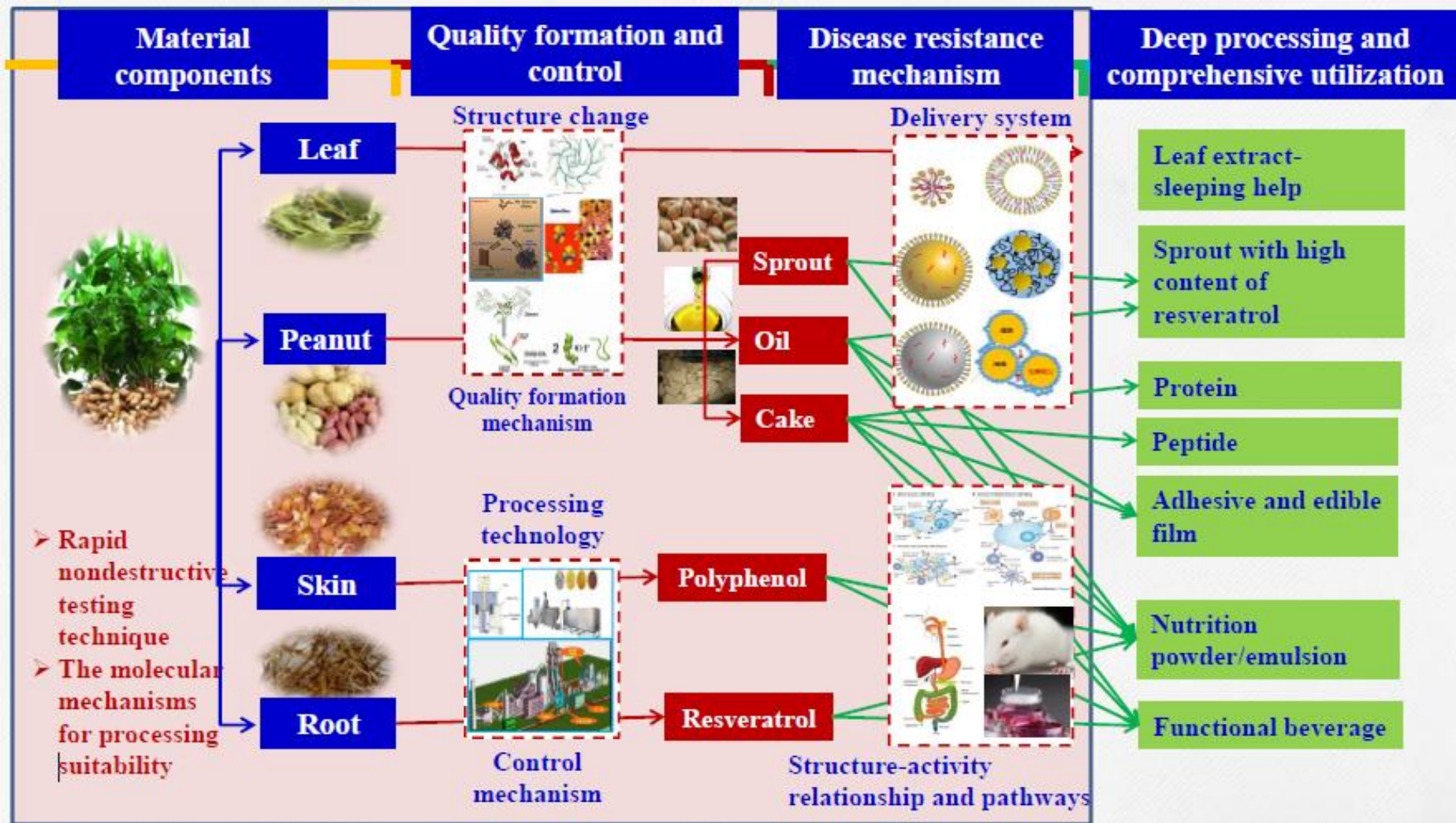
- ✓ Founded in July 30th 2017, 156 members and 38 directors
- ✓ First time to build the cooperation platform for Peanut breeding and processing and communication platform for Industry-University-Research



UNIVERSITY OF
GEORGIA



Research Directions



Peanut research lab

Hanan Academy of Agricultural Sciences

- ❑ Dr. Xinyou Zhang, President of the Institute
- ❑ Chair the organizing committee of the Sixth International Conference of the Peanut Research Community at Zhengzhou China on June 17-21, 2013.
- ❑ A peanut breeder.
- ❑ A Fellow member of the Chinese Academy of Engineering
- ❑ Peanut research lab is a unit under the Economic Crop Research Institute.



UNIVERSITY OF
GEORGIA



Peanut research Institute

Shandong Academy of Agricultural Sciences

- ❑ Founded in 1959 and originally a member of CAA. Transferred to Shandong Academy of Agricultural Science in 1962.
- ❑ Has 5 research divisions, including breeding division, cultivation division, biotechnology division, plant protection division and industrial engineering division.
- ❑ Keeps more than 6000 peanut germplasm lines. It's about 50% of Chinese peanut genetic resources.
- ❑ Host the National Peanut Industry Technology System



Africa

- Senegal - ISRA-Bambey (Issa Faye); CERAAS-Thies (Daniel Fonceka)
- Mali - IER-Bamako; ICRISAT-Mali (Ramadjita Tabo)
- Niger IER-Niamey; ICRISAT-Niger (Falalou Hamidou)
- Ghana - CSIR-CRI Kumasi (Moses Mochiah); CSIR-SARI Tamale (Mumuni Abdulai)
- Nigeria - IER-; ICRISAT-Kano (Hakeem Ajeigbe)
- Malawi - DARS-Chitedze (Justus Chintu); ICRISAT-Malawi (Patrick Okori)
- Mozambique - IIAM-Namula (Amade Muitia)
- Uganda - NARO-NASARRI (David Okello Kalule)
- Zambia - ZARI-Chipata (Lutangu Makweti)
- Zimbabwe - ICRISAT-Bulawayo (Kazito Mazvimavi)



Peanut Information Network System (PINS)

www.worldpeanutinfo.com

- PINS is a web-based peanut information distribution system
- PINS divides content by group focus

