



河海大學
HOHAI UNIVERSITY

College of agricultural Engineering

2018.6.26



1 Brief information

History

- ◆ In 1952, the Department of Soil remediation (Hydromelioration) was founded (**origin**).
 - ◆ In 1997, the Department was renamed as the Department of Irrigation and Drainage Engineering.
 - ◆ In 2018, the College of Agricultural Engineering was established based on the Department of Irrigation and Drainage Engineering.
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1 Brief information

Institutes in the college

- ◆ **Institute of Water and Soil Resources**
 - ◆ **Institute of Efficient Irrigation**
 - ◆ **Institute of Irrigation and Drainage
Instruments and Facilities**
 - ◆ **Institute of Agricultural Environment**
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1 Brief information

(1) Institute of Water and Soil Resources **Research Topics**

- **Planning and utilization of soil and water resources**
- **Agricultural water management and pollution discharge control**
- **Efficient utilization of water resources and restoration of farmland ecosystem in arid area**



Fruits and Awards

- **Techniques of soil and water conservancy to cope with extreme climate disaster drought and waterlogging under circumstance of global change (Second Prize of Dayu Hydraulic Science and Technology Award)**
- **Integration and application of modern techniques of agricultural efficient water management in Shandong Province (Second Prize of Science and Technology Progress Award in Shandong Province)**



1 Brief information

(2) Institute of Efficient Irrigation

Research Topics

- Crop-water response and precise irrigation
- Efficient irrigation and drainage and its eco-environmental effect
- Instruments and equipments for efficient irrigation

Fruits and Awards

- New technique of controlled irrigation for efficient water utilization of rice (Second Prize of National Science and Technology Progress Award, ICID WATSave award)
- Development of techniques for ecological and efficient irrigation districts construction and its application (First Prize of National Science and Technology Progress Award)
- Development of efficient irrigation techniques and its outreach (Second Prize of National Science and Technology Progress Award)





1 Brief information

(3) Institute of Irrigation and Drainage Instruments and Facilities

Research Topics

- Structures in irrigation districts and its safety operation
- Hydraulic theory for irrigation and drainage instruments and facilities
- Modern management and information of irrigation district
- New irrigation technologies and smart irrigation

Fruits and Awards

- Development techniques of large bulb tubular-flow pump and its application (First Prize of DAYU Hydraulic Science and Technology Awards)
- Hydraulic optimization designing and water hammer protecting for urban drainage pumping station (First Prize of DAYU Hydraulic Science and Technology Awards)



图片来源: 视觉中国 www.vcg.com



1 Brief information

(4) Institute of Agricultural Environment

Research Topics

- Soil and water pollution and restoration
- Ecological health and restoration of rural river system
- Utilization of agricultural waste resources

Fruits and Awards

- Techniques for nitrogen and phosphorous discharge control in middle and lower reaches of Yangze River (Second Prize of Excellent Achievement Award for Scientific Research in Colleges and Universities)
- Development of multi-functional Micro- organism fermented seaweed product and its application (Third Prize of Technical Inventions in Shandong Province)





2 Faculty members

- ◆ **45 faculty members, including 14 professors and 19 associate professors.**
 - ◆ **more than 92% of young teachers with both PhD degree and overseas study experience.**
 - ◆ **1 academician of Chinese Academy of Engineering engaged as a part-time faculty member**
 - 3 scholars supported by the ‘333 High-Level Talent Training Program of Jiangsu Province’**
 - 4 scholars supported by ‘Qinglan Program’ of Jiangsu Province**
 - 2 vice presidents of national academic society.**
 - ◆ **One group supported by Advanced Science and Technology Innovation Team in Colleges and Universities in Jiangsu Province.**
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二、学院现状

师资队伍

45 faculty members

35 master's supervisors

9 lecturers

10 PhD supervisors

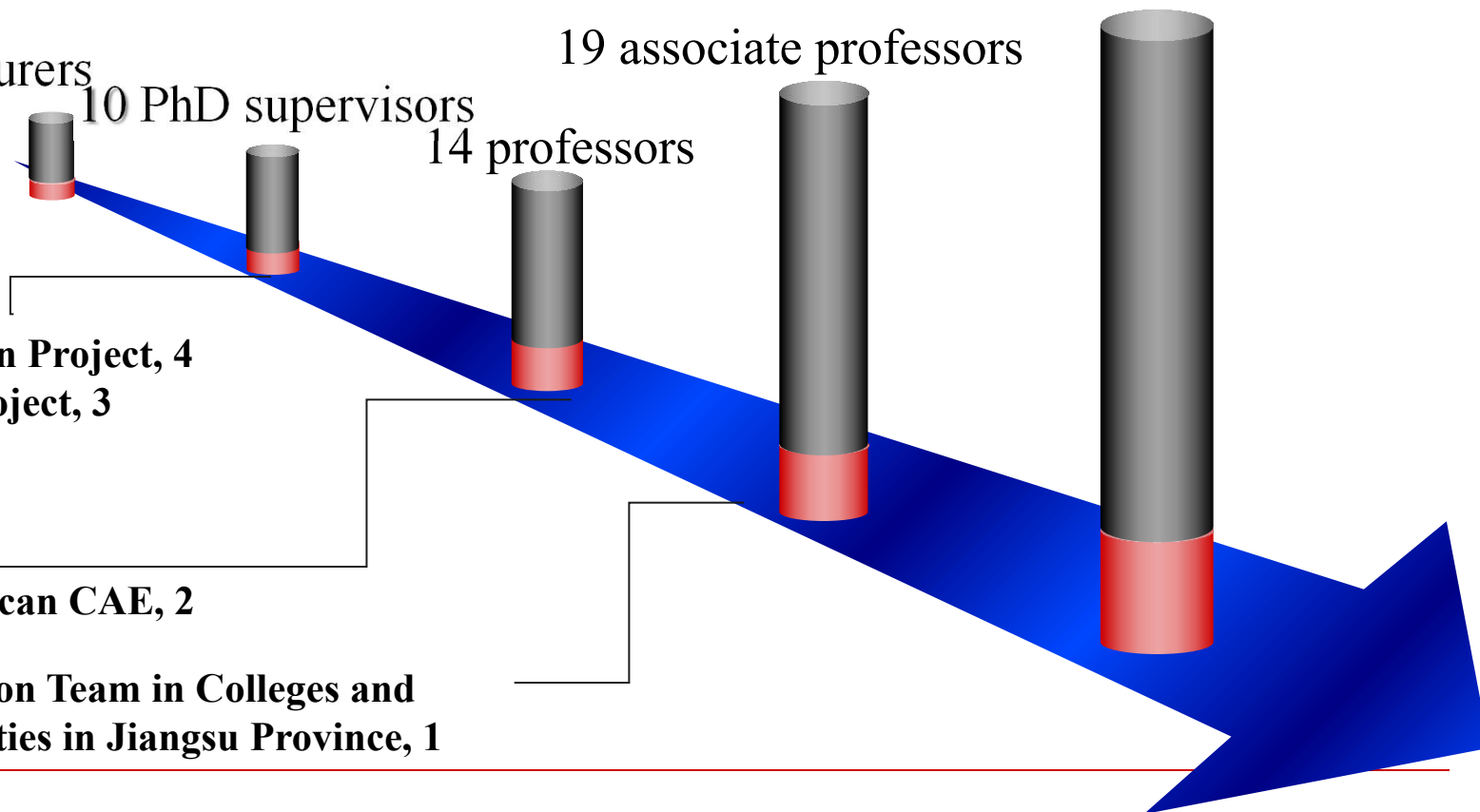
19 associate professors

14 professors

Qinglan Project, 4
333 project, 3

Academican CAE, 2

Innovation Team in Colleges and
Universities in Jiangsu Province, 1





3 Academic disciplines and degrees

◆ **Provincial key academic discipline:**

Agricultural Engineering.

◆ **Three PhD programs:**

Agricultural soil and water engineering

Agricultural biological environment and energy engineering

Agricultural soil and water conservancy.

◆ **Programs for master degree:**

Agricultural soil and water engineering

Agricultural biological environment and energy engineering

Agricultural soil and water conservancy

Soil science

◆ **Undergraduate program:**

Irrigation and drainage engineering



4 Platforms

- ◆ **Key Laboratory of Efficient Irrigation-Drainage and Agricultural Soil-Water Environment in Southern China**
- ◆ **Water-Saving Garden of the Ministry of Water Resources.**



5 Graduate and Alumni

In the past 50 years

more than 4,000 of students graduated from the College of AE, including more than 240 students of minority nationality from Xinjiang and Tibet.

In recent 5 years

- ◆ more than 320 students got the master degree
 - ◆ 28 got their PhD degree
 - ◆ two thesis won the excellent master thesis in the Jiangsu Province
 - ◆ eleven thesis won the excellent master thesis in Hohai University
 - ◆ More than 50 postgraduates won the National Scholarship, the Yankai Scholarship, the Qianzhengying Scholarship and Outstanding Graduates.
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6 International students and cooperation

◆ Undergraduate students

In 1959, 13 Vietnam student was enrolled in the department.

Totally, 112 international students from more than 20 countries got the Bachelor degree from our department.

◆ Graduate students

In recent five years, 21 for PhD degree, and 18 for MsE degree, 3 for internship. They are from 21 countries including Syria, Pakistan, Tanzania, Guba.

Hundreds of international graduate student from more than 20 countries in Asia, Africa and Central America got their degree (PhD, MsE or B.Eng).

6 International students and cooperation

- ◆ **Several graduates grow up to be leaders of national or regional institutes of water resources, professors and researchers.....**



SAMUEL NIIODAI (B.Eng1992)
kwame nkrumah university of
science and technology(Chair,
Guba) . Guest Professor of TuDelft,
Newcastle University

6 International students and cooperation

- ◆ **The advanced irrigation and drainage technologies developed by the College were introduced to many other countries by the international students. That broaden and accelerate the spreading of the techniques worldwide, and contributed greatly to the improvement of local irrigation and drainage engineering to solve the problem of food shortage in their hometowns.**
 - ◆ **Our College was included in several international programs for undergraduate students issued together with dozens of world-class universities (UC Los Angeles, UF,)**
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