

## **Roles of Office of International Relations in Promoting Research Collaboration**

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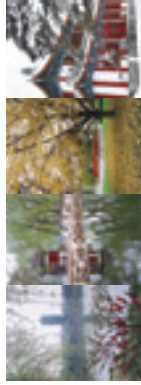
### **ABSTRACT**

As a part of academic excellence, the quality of research has always been a target for universities, especially for a research-intensive university. The importance of international research collaborations brings growing attention, not only because the world is ‘getting flat’ and becoming more accessible, but also due to more channels and funding being available for such collaborative activities. While the number of projects and their corresponding grants have become a routine parameter in valuing (or measuring) the international research collaborations, other influences resulting from collaborations are always underestimated or even ignored. The speaker is trying to approach this using the data of publications in some representative schools at Peking University. Moreover, the speaker would like to share with the participants the practice and ideas of what an Office of International Relations can do in promoting international research collaborations. A brief introduction to Peking University will be also presented.



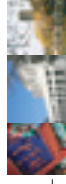
## Roles of Office of International Relations in Promoting Research Collaboration

Dr. Ruqing Zheng  
Peking University  
February, 2007



## Outline

- General Information
- The International Research Collaboration at Peking University
  - Projects
  - Publications
  - Opportunities and Challenges
- What Can We Do?



## General Information

### History

- Founded in 1898 - "Imperial University of Peking"
- From 1912 – "Peking University"
- Disciplinary Relocation in 1952
- Centennial Anniversary in 1998
  - Defined the goal to be a world-class university in the 21st century
- Merged with Beijing Medical University in 2000



## General Information

### Fast Facts

- Students: 30,791
  - Undergraduates: 14,125
  - Master's Students: 11,224
  - Ph.D. Students: 5,442
- Faculty Members: ≈ 5000
  - Humanities & Social Sciences: 1140
  - Natural Sciences: 1040
  - Medicine: 820
  - 8 Affiliated Hospitals: ≈ 2000



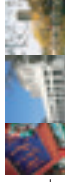
### The Academic Structure

- **Faculties: 5**
  - Faculty of Sciences
  - Faculty of Humanities
  - Faculty of Social Sciences
  - Faculty of IT & Engineering
  - PKU Health Science Center
- **Schools/Colleges/Departments: 41**
- **Research Institutions and Centers: 271**

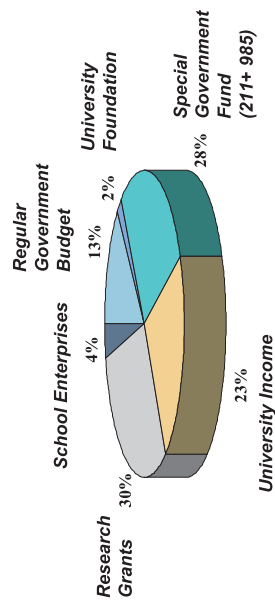


### Educational System

- **Bachelor's Degree: 4 years**
  - 101 Undergraduate Programs, 4 Double-Major Programs
- **Master's Degree: 2-3 years**
  - 244 Master's Programs
- **Ph.D. Degree: 3-5 years**
  - 201 Ph.D. Program
- **MD program: 8 years**
  - 2 years' general education in main campus
- **Postdoctoral fellows: 500**



### Total Annual Expenditure: 2.5 Billion RMB



### A Profile of Research Activities

- **Number of ongoing projects: ≈ 2000**
- **Annual research grants: ≈ \$80M**
  - Of the amount, ≈ 1/5 from NSFC
  - Life science related, ≈ 1/3
  - IT related, ≈ 1/7
- **International papers per year: ≈ 2000**
  - Average IF: 2.0



### The Priorities in Research

- Information Science and Technology
- Nano-science and Technology
- Bio-medical Science
- Environment and Resource Studies
- Physical Sciences
- Humanities and Social Sciences



### Projects of International Collaborations

- Small Number:  $\approx$  100 projects/year (incomplete statistics)
- Small Scale:  $\approx$  100 K RMB/project
- Some Exceptions:  $>$  1M RMB/ project
  - Environment & Sustainability Project
  - Bill Gates Foundation, 1.9 M \$ in Life Science
- Free Exploration vs. Application-oriented Research
- Mechanism: "Overseas R & D"



### Publications

SCI Publications\* with International Collaboration at PKU

2002	174	16%
2003	125	12%

\*First-Author based only



### Publications

SCI Publications\* in College of Chemistry, PKU

	Total	IF	International Collaboration	IF	National Collaboration
2005	418	2.40	71 (17.0%)	3.55	99 (23.7%)
2006	362	2.60	59 (16.3%)	3.32	109 (30.1%)

\*First-Author based only




International Research Collaboration

## Publications

SCI Publications in School of Basic Medicine, PKUHSC

	International Collaboration	National Collaboration
2004	15%	11%
2005	13% (IF=4.1, compared to 3.2) Harvard: 26%	16%
		43%




International Research Collaboration

## Publications

SCI Publications at PKU

	International Collaboration		First-Author Based		International Collaboration				
	Number	%	Number	IF	Number	%			
2005	3008	26.4	3.12	2011	2.00	343	17.1	2.74	
2006	2929	817	27.9	3.06	2006	2.01	358	17.8	2.30




International Research Collaboration

## Publications

SSCI & AHCI Publications at PKU

SSCI

	Number	First-Author Based		Non F-A Based		Total
		International Collaboration	National Collaboration	International Collaboration	National Collaboration	
2004	126	17 (13.5%)	10 (7.9%)	55 (70.5%)	23 (29.5%)	204
2005	28	12 (42.9%)	3 (10.7%)	41 (89.1%)	5 (10.9%)	74




International Research Collaboration

## Publications

AHCI

2004: 4 (First-Author: 3)

2005: 13 (First-Author: 8)



International Research Collaboration

## Opportunities and Challenges

- 1) Faculty Structure: 1/3-1/3-1/3
- 2) Resources at PKU Level
  - a. Partner Universities  
(About 240 from 50 Countries/Regions)
  - b. Visitors
  - c. Foreign Experts




International Research Collaboration

## Opportunities and Challenges

- 3) Resources outside PKU
  - Funding in China: MoST, MoE, NSFC, Municipal Government...
  - Funding outside China: EU (FP7), DFG/ DAAD ...
  - "China Strategy" of World Class Universities

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### How to Promote International Research Collaboration



What Can We Do?

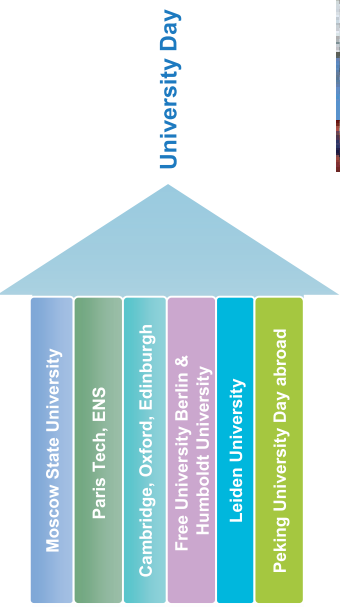

## The Practices in Promoting International Collaborations

- Sister Universities
- University Organizations & International Meetings
- Student Exchange



What Can We Do?


## The Practices in Promoting International Collaborations

What Can We Do?

**“China Strategy” at LSE and LSE China**

- Initiated in 2003
- > 10 Programs with PKU:
  - PhD Co-supervision
  - Double MS degrees
  - PKU-LSE Summer School
  - Research Collaboration
  - Public Policy Training Program
  - .....



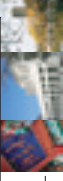
What Can We Do?

**IARU: “Global Changes and Sustainability”**

- Movement of People
- Longevity and Health
- Energy, Resources and Environment
- Security

Members of IARU

ANU	ETH Zurich	NUS	PKU	UC-Berkeley
Cambridge	Copenhagen	Oxford	Tokyo	Yale



What Can We Do?


**Beijing Forum**

**“The Harmony of Civilization and Prosperity for All”**

- Korea Foundation for Advanced Studies
- Beijing Municipal Government

**Beijing Forum 2007** ----- Nov. 2-4, 2007

“Diversity in the Development of Human Civilization”



What Can We Do?

**Sino- German University Presidents Meeting**

**Participants:**

Germany	China
Humboldt-Universität	Peking University
Freie Universität	Tsinghua University
Universität Heidelberg	Fudan University
TU München	Zhejiang University
RWTH Aachen	Shanghai Jiaotong University
Universität Tübingen	Nanjing University
Universität Freiburg	Xi'an Jiaotong University
LMU München	Tongji University
	University of Science and Technology



What Can We Do?

**Student Exchange**

To build academic links between professors for Research Collaborations

-Co-supervision or Sandwich Program

-Study Abroad Supported by CSC

What Can We Do?

**Ideal Model:**  
**"Research and Project Development Division"**

- **Qualified staff:**
  - Professional backgrounds
  - People skills
  - Communication
  - Teamwork
  - Networking
- Well defined roles and responsibilities

What Can We Do?

**Ideal Model:**  
**"Research and Project Development Division"**

- Coordination with various administrative units
- Functions (technical support):
  - Fundraising
  - Proposal preparation
  - Research policies
  - Lawyers
  - Consultants...

☀ All to offer advice and assistance to the academic community.

**Thank You!**