



Asia Pacific Center for Theoretical Physics

– APCTP : Past, Present, and Future –

Introduction



The Center aims to

- ❖ Lead research excellence in the field of theoretical physics
- ❖ Facilitate international collaborations
- ❖ Contribute to the advancement of physics by training young scientists.

To achieve its purposes, the Center

- ❖ Engages in topical research in all areas of theoretical physics and beyond
- ❖ Pursues international academic collaborations and exchange of scholars
- ❖ Educates and trains young physicists and scientists.

Milestones



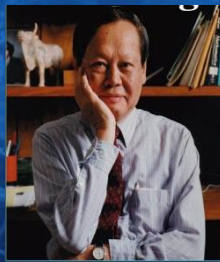
1996. 6

**Establishment
of APCTP**
*Inauguration Conf.



1997. 1

C. N. Yang
- **Founding
President**



1999. 12

**Opening of
annex building
in Seoul**



2001. 4

A. Arima
- **2nd Chairpreson**



2001. 8

**Relocation
of APCTP
in Pohang**



2004. 4

R.B. Raughlin
- **2nd President**



2005. 10

N. V. Hieu
- **3rd Chairperson**



2007. 3

Peter Fulde
- **3rd President**



2010. 4

Won Namkung
- **4th Chairperson**



2013. 7

Seunghwan Kim
- **4th President**



2013. 11

Paul A. Pearce
- **5th Chairperson**

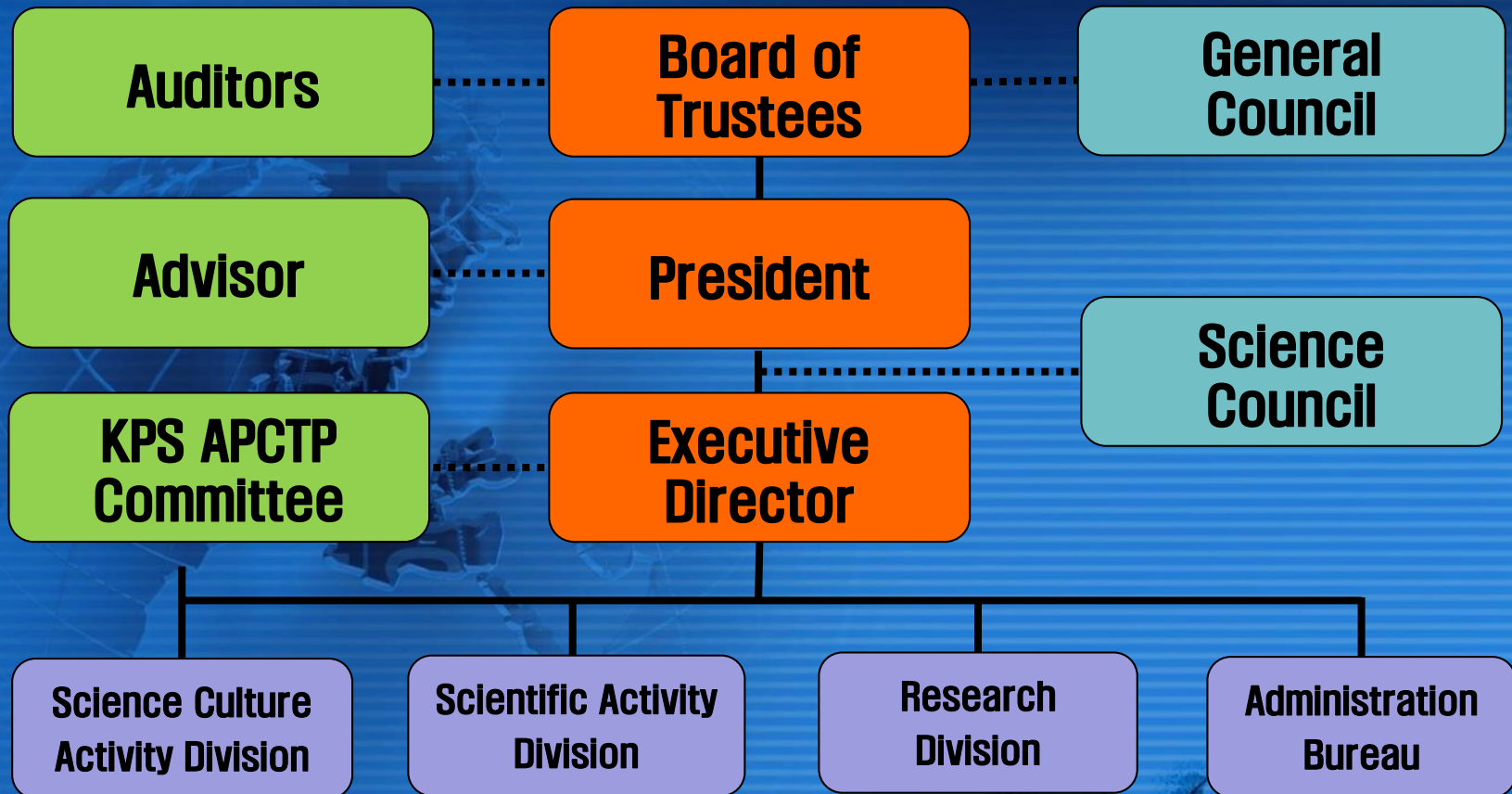


2015. 6

Bum-Hoon Lee
- **5th President**



Organization Chart



Member & Agreements



Member countries (15)

Agreements (16)



- ◆ **Australia:** Australia Research Council (ARC)
- ◆ **Beijing:** National Natural Science Foundation of China (NSFC)
- ◆ **India:** Indian Association for the Cultivation of Science (IACS)
- ◆ **Japan:** RIKEN
- ◆ **Korea:** The National Research Foundation of Korea (NRF)
- ◆ **Lao PDR:** The Research Institute of Science, Science Technology and Environment Agency (RIS-STEAM)
- ◆ **Malaysia:** Malaysian Institute of Physics (MIP)
- ◆ **Mongolia:** Mongolian Academy of Sciences (MAS)
- ◆ **Philippines:** National Research Council of the Philippines (NRCP)
- ◆ **Singapore:** World Scientific Co.
- ◆ **Thailand:** National Research Council of Thailand (NRCT)
- ◆ **Taipei:** Academic Sinica
- ◆ **Uzbekistan:** Uzbekistan Academy of Sciences [UAS]
- ◆ **Vietnam:** Vietnamese Academy of Science and Technology (VAST)
- ◆ **Kazakhstan:** National Academy of Sciences [NAS]

- ◆ **ICTP** (The International Center for Theoretical Physics): 1996. 7, 2007. 8 / Italy
- ◆ **NCTS** (National Center for Theoretical Science): 1999. 12 /
- ◆ **PIMS** (The Pacific Institute for the Mathematical Sciences): 2001. 7 / Canada
- ◆ **ECT*** (The European Centre for Theoretical Studies in Nuclear Physics & Related Areas): 2003. 3 / Italy
- ◆ **ITP/CAS** (Institute of Theoretical Physics, Chinese Academy of Sciences) : 2005. 7 / Beijing
- ◆ **MPI-PKS** (Max Planck Institute for Physics of Complex Systems): 2006. 4 / Germany
- ◆ **JINR** (The Joint Institute for Nuclear Research): 2006. 7 / Russia
- ◆ **YITP** (Yukawa Institute for Theoretical Physics, Kyoto University): 2007. 3 / Japan
- ◆ **IOP/CAS** (The Institute of Physics, Chinese Academy of Sciences) : 2007.10 / Beijing
- ◆ **ISSP** (The Institute for Solid State Physics of the University of Tokyo): 2007.10 / Japan
- ◆ **AAPPS** (The Association of Asia Pacific Physical Societies) : 2009. 1
- ◆ **IP, VAST** (The Institute of Physics, Vietnam Academy of Science and Technology) : 2009. 4 / Vietnam
- ◆ **ThEP** (Thailand Center of Excellence in Physics) : 2010. 4 / Thailand
- ◆ **NORDITA** [Nordic Institute for Theoretical Physics] : 2012.3 / Sweden
- ◆ **IBS** (Institute for Basic Science) : 2013.4 / Korea
- ◆ **IUPAP** [International Union of Pure and Applied Physics] : 2013.11

The Dream in the Making

**Strengthen
Natural Science and
Technology**

Academic Activities

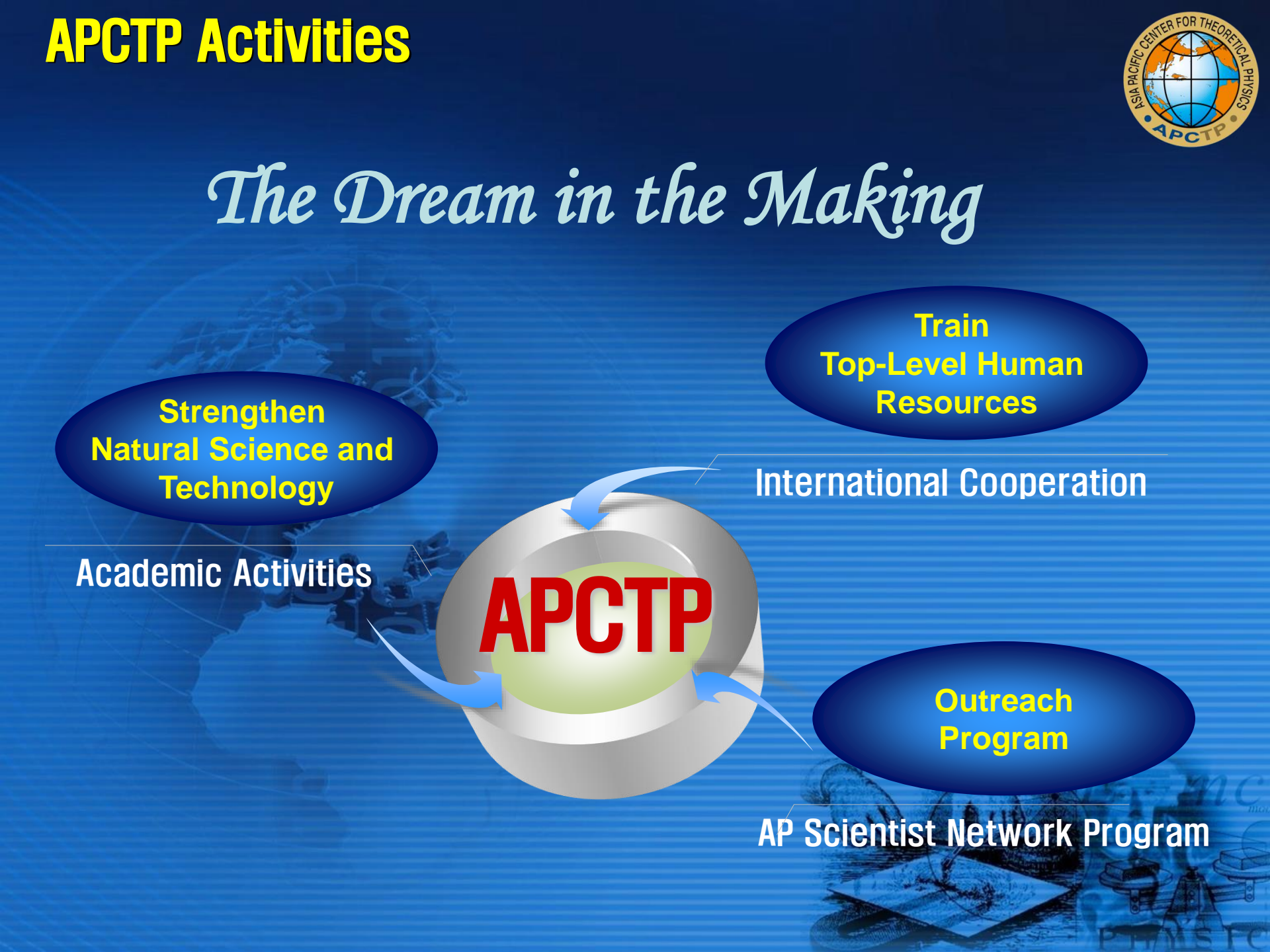
APCTP

**Train
Top-Level Human
Resources**

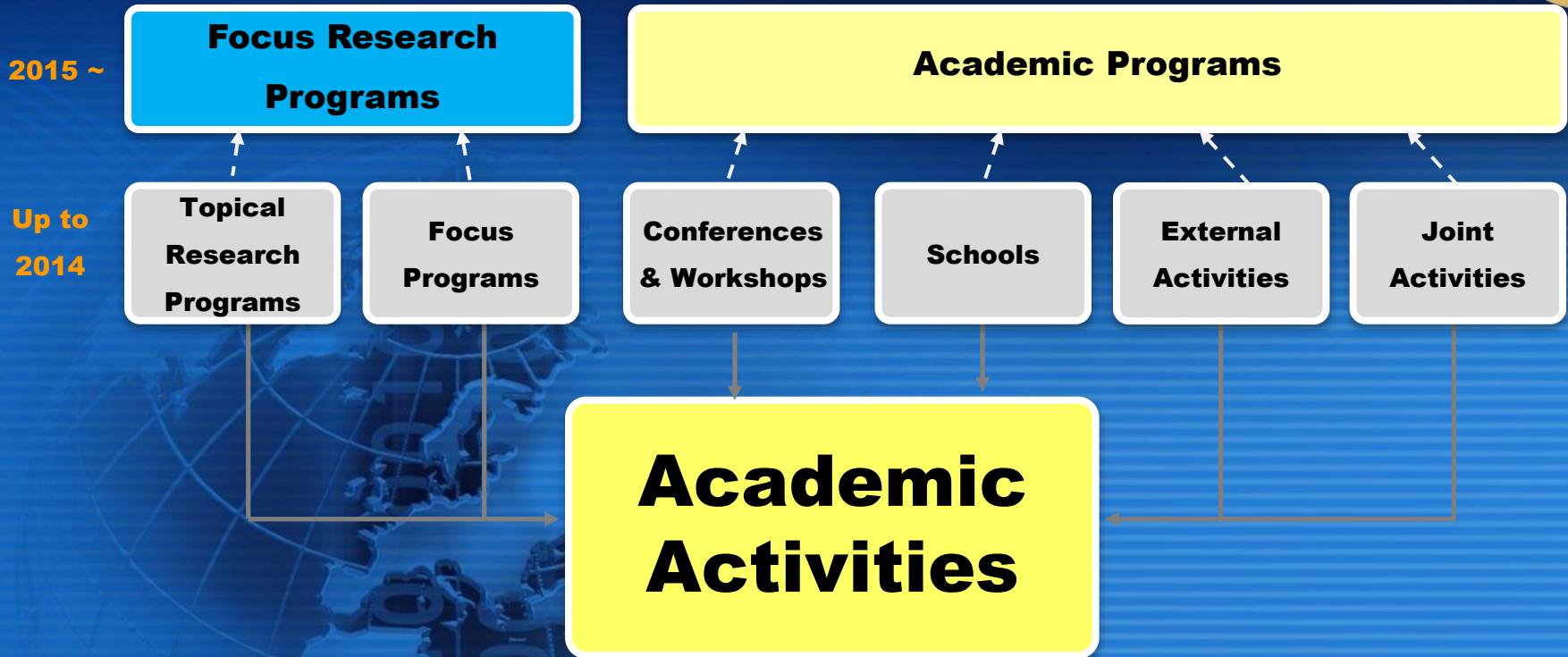
International Cooperation

**Outreach
Program**

AP Scientist Network Program



APCTP Activities



APCTP Activities

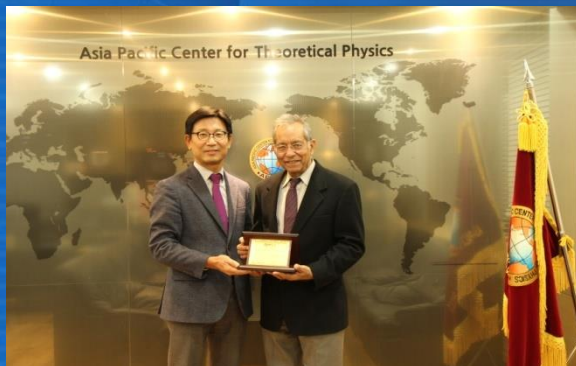


**Visitors
Program**

**Junior
Research
Groups**

**Young Scientist
Training
Program**

Research



– Junior Research Group (JRG) –

Purpose

The main goal of JRG is to **promote talented young scientists** to a scientific leader by offering them the **opportunity to qualify for management positions** in science.

Structures/System

- **APCTP** exchanged an agreement with **MPG(Max Planck Society)** and **POSTECH** for establishment of JRGs at APCTP.
- The leader of JRG pursues his/her own research program without external interference.
- APCTP initially launched two JRGs in 2008 and gradually extends the JRGs. Currently, it has **8 groups** in different research fields
 - The research budget of the JRG is available for 1-2 postdocs, 1-2PhD students and scientific activities including travel, workshops, visitors and so on.
 - The leader of the group takes responsibility of managing and controlling the workshop, seminars, joint researches.

APCTP Activities



**The Web
Journal
'Crossroads'**

**Science
Book
Publication**

**Forum
Lecture
School**

**"Best Science
Book 10"
Selected by
APCTP**

**Local
Science
Culture
Festival**

Outreach



Current Statistics



Publications

	2008	2009	2010	2011	2012	2013	2014
SCI	52	51	59	75	59	65	68
IF	3.62	4.02	3.82	3.80	4.33	4.21	4.68

International Cooperation & Academic Activities

	Topical Research Program	School	Conference & Workshop	Focus Program	Overseas Academic		AP Scholar	YST	JRG
					External	Joint			
08	11	5	13	4	9	7	9	15	2
09	11	9	8	4	11	9	10	14	4
10	12	8	8	4	10	9	5	9	6
11	13	4	12	4	10	7	6	9	6
12	12	8	8	4	10	9	5	10	8
13	10	7	16	4	13	9	4	8	6
14	13	6	9	3	11	8	1	7	6

Current Statistics



Outreach Program

* the Online web-journal "Crossroads"
<http://crossroads.apctp.org>



* Science Book publication : 11



* Forum, Lecture, School, Science Festival etc
 - About 37,000 people participated





We are the future of APCTP



9th APCTP - BLTP JINR Joint Workshop at Kazakhstan

Modern problems of nuclear and elementary particle physics

June 27 - July 4, 2015, Almaty, Kazakhstan



Thank you

