

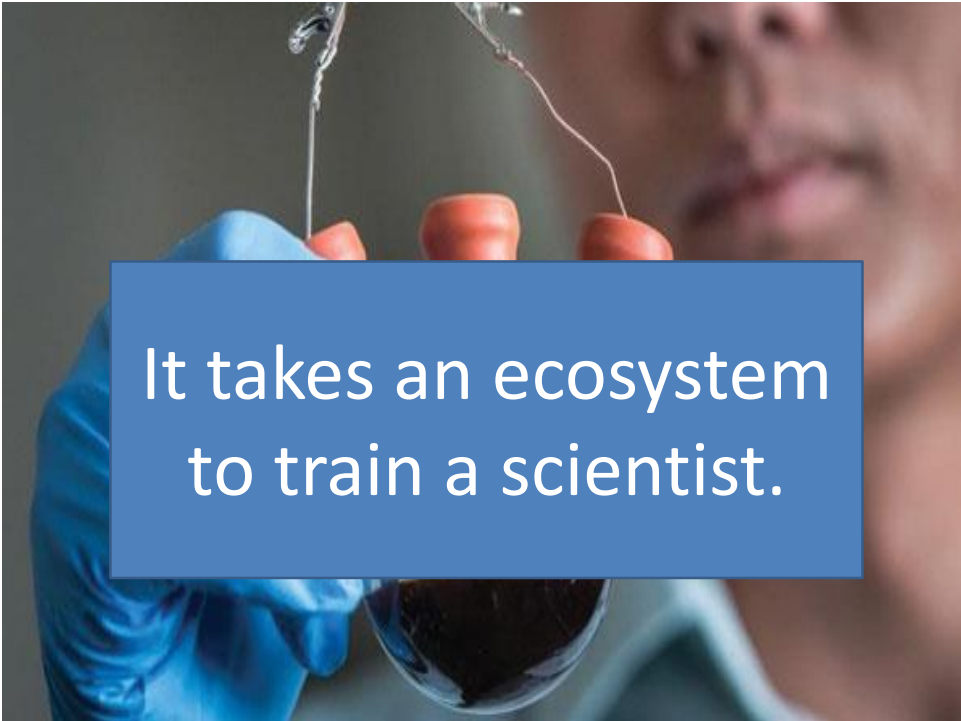


**Accelerated Science & Technology Human
Resource Development Program –
National Science Consortium**

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“S&T Human Resources Development: Looking Back and Looking Forward”,
Astoria Plaza Manila, Ortigas Center, June 30, 2016



It takes an ecosystem
to train a scientist.

**Advanced
Science &
Technology
Human
Resources
Development
Program
(ASTHRDP)**



Science Education
Institute, DOST

The National Science Consortium (NSC)



- **UP Diliman:** Basic & Applied Sciences, Mathematics
- **UP Los Baños:** Basic Sciences, Mathematics, Agricultural Sciences
- **UP Manila:** Medical Science
- **UP Visayas:** Fisheries Science



- **Ateneo de Manila University:** Basic Sciences, Mathematics



- **Central Luzon State University:** Agricultural Sciences



- **De La Salle University:** Basic Sciences, Mathematics



- **MSU-Iligan Institute of Technology:** Basic Sciences, Mathematics



- **University of San Carlos:** Biology, Chemistry



- **University of Santo Tomas:** Basic Sciences, Mathematics



- **Visayas State University:** Agricultural Sciences



Highlights of ASTHRDP - NSC



- Before 2009: MS and PhD science programs were directly managed by SEI



- 2009: SEI launches ASTHRDP and invites 10 universities to establish the NSC: AdMU, CLSU, DLSU, MSUIIT, UPD, UPLB, UPM, UPV, UST, & VSU. MOU signed on Dec 11, 2009.



- 2012: 1st Student Research Conference



- 2013: 2nd Student Research Conference



- 2014: 3rd Student Research Conference



- 2015: 4th Student Research Conference



- 2015: Establishment of 3 interdisciplinary research areas; benchmarking visits conducted

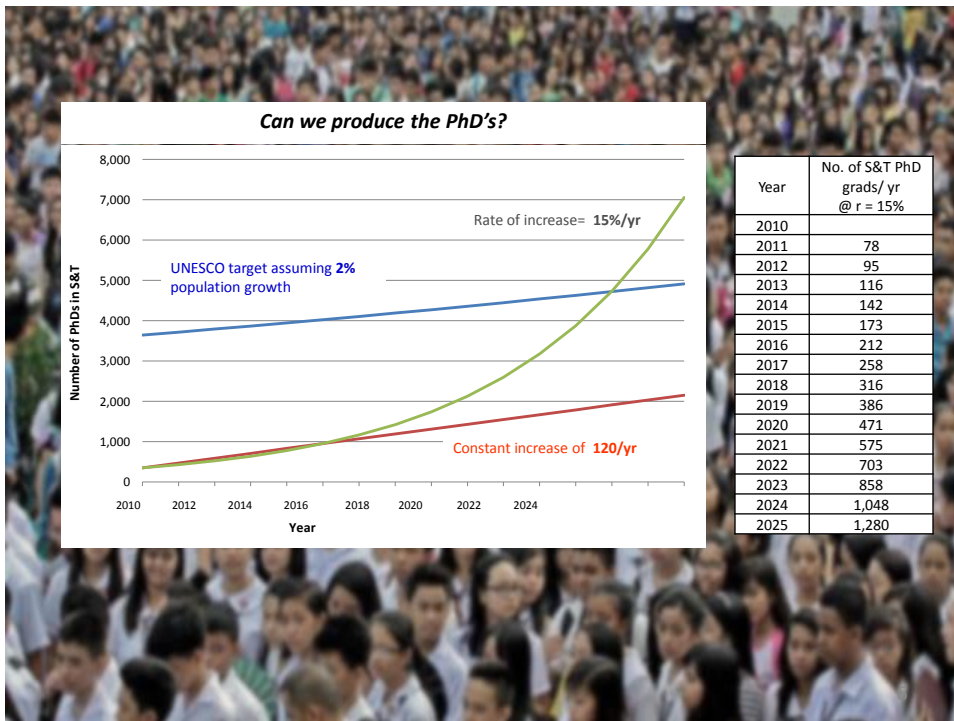
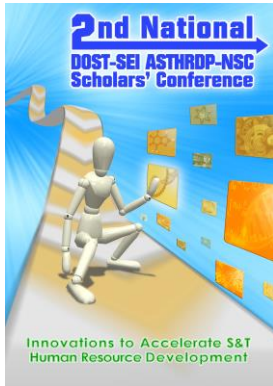


- 2016: 1st International Student Research Conference

- 2016: Supplementary MOU signed

Updates on ASTHRD-NSC 2016

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ASTHRD-NSC Initiatives



1. MOU for enhanced cooperation



2. International Student Research Symposium



3. Internal Mobility Fund



4. Interdisciplinary Programs



5. International benchmarking and cooperation



6. Improve on-time graduation rate



7. Improve faculty profile



8. Upgrade facilities and equipment

Updates on ASTHRD-NSC 2016

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ASTHRD-NSC Initiatives



1. MOU for enhanced cooperation



- Promote research collaborations, sharing of resources, and exchange of information



- Allow cross-enrolment of ASTHRDP-NSC scholars



- Allow NSC faculty members to conduct lectures on specialized fields and serve as co-adviser to scholars in other NSC member-universities



- Develop of new courses and programs



- Encourage team teaching



- Organize joint conferences



- Local Sandwich Program

Updates on ASTHRD-NSC 2016

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ASTHRD-NSC Initiatives



1. MOU for enhanced cooperation



- Annual
- Expand invitation to other countries

Updates on ASTHRD-NSC 2016

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ASTHRD-NSC Initiatives



1. MOU for enhanced cooperation



2. International Student Research Symposium



- Faculty: for faculty exchange, visiting lectures, co-advising, collaboration
- Students: to conduct research in other NSC institutions, cross-enrolment

Updates on ASTHRD-NSC 2016

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ASTHRD-NSC Initiatives



1. MOU for enhanced cooperation



2. International Student Research Symposium



3. Internal Mobility Fund



- Climate Change & Disaster Preparedness



- Materials Science & Nanotechnology



- Natural Products & Drug Development



Updates on ASTHRD-NSC 2016

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ASTHRD-NSC Initiatives



1. MOU for enhanced cooperation



2. International Student Research Symposium



3. Internal Mobility Fund



4. Interdisciplinary Programs



- Collaborative projects



- Visiting professors



- Report publication output



Updates on ASTHRD-NSC 2016

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ASTHRD-NSC Initiatives



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Updates on ASTHRD-NSC 2016

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Data on ASTHRDP MS Scholars			
YEAR	INTAKE	GRADUATED	
		N	%
2009	413	252	61%
2010	387	261	67%
2011	209	105	50%
2012	437	157	36%
2013	453	23	5%
2014	417	1	0%
2015	334		
TOTAL	2650	799	30%

Data ASTHRDP PhD Scholars			
BATCH	INTAKE	GRADUATED	
		N	%
2009	94	47	50%
2010	73	20	27%
2011	45	8	18%
2012	67	6	9%
2013	61		
2014	78		
2015	79		
TOTAL	497	81	16%

Updates on ASTHRD-NSC 2016

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ASTHRD-NSC Initiatives



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6. Improve on-time graduation rate



Updates on ASTHRD-NSC 2016

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NSC Faculty Profile (2014)



Discipline	ADMU	CLSU	DLSU	MSU-IIT	UPD	UPLB	UPMan	UPVis	UST	VSU	Total
Agriculture		43				111				53	207
Biology	7	10	14	9	35	66		7	17		165
Chemistry	12	4	16	12	33	20		3	21		121
Environmental Science	7	1	9		8	38		1			64
Fisheries		7	2					13			22
Food Technology						22		5	4		31
Forestry						39					39
Geology					13						13
Marine Science			1		29			6			36
Mathematics	24		10	15	31	8		3	1		92
Pharmacy									10		10
Physics	7		17	7	23	13			2		69
Statistics			3	4		5					12
Veterinary Science		4				60					64
Total	57	69	72	47	172	382	0	38	55	53	945

Updates on ASTHRD-NSC 2016

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ASTHRD-NSC Initiatives



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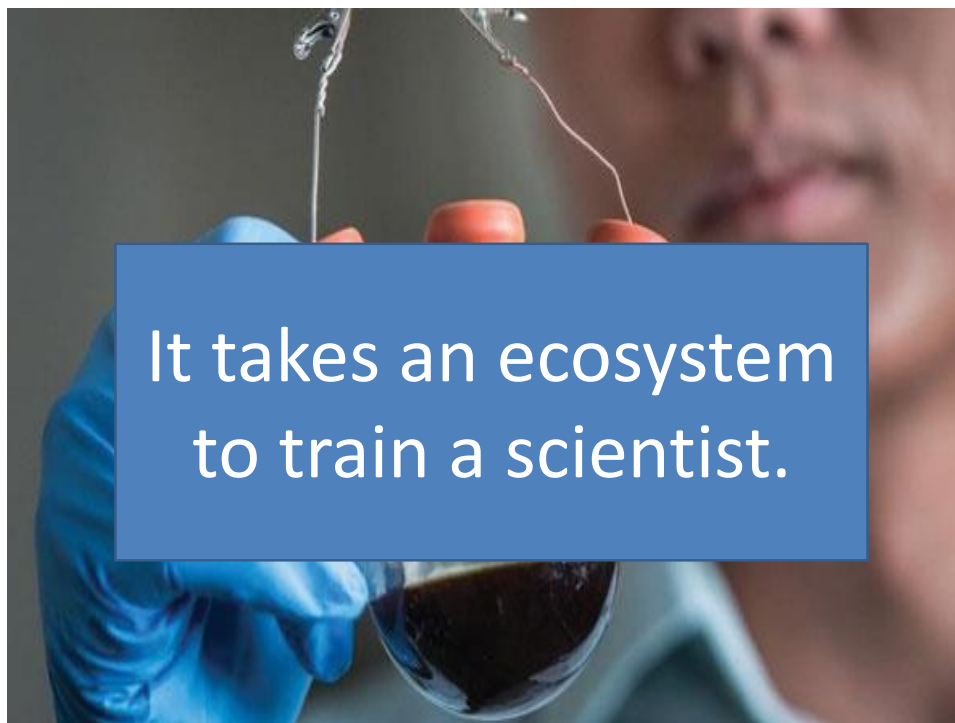


7. Improve faculty profile



Updates on ASTHRD-NSC 2016

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