



Centre for Theoretical Physics and Natural Philosophy
“Nakhonsawan Studiorum for Advanced Studies”- NAS
Mahidol University, Nakhonsawan Campus Project

The Third Convocation and Matriculation of Nakhonsawan Studiorum for Advanced Studies-NAS and Special Lectures Commemorating the 5th Year Celebration of NAS Founding

11th December 2025



NAS Convocation and Matriculation 2025 and Commemoration of the 5th Anniversary of NAS

“NAS’ convocation is a formal meeting of NAS present and past members. This includes faculty, staff, students, alumni and other related people. NAS holds a ceremonial statement of accepting its new members. Diploma and certificates are awarded on this occasion upon NAS’ graduands. Herewith the convocation, new student matriculation (studentship accepting ceremony) is to be held as a part of the event. Honorable guests are invited to witness the event.

In 2025, the commemoration of the 5th anniversary of NAS, which marked its fifth year on 18 November 2025, is incorporated into the event.”

“ພີເຮີ convocation ຂອງ NAS ເປັນກາປະຊົມອ່າງເປັນກາທາງການຂອງສານາັກ ນັກສຶກສາ ສຶກສາ ແລະ ບຸກຄລທີ່ ເກີ່ວຂ້ອງອັນໆ ຖ ໂດຍໃນພີເຮີນີ້ ນັກສຶກສາ ຈະມີກາປະກາສັບສານາັກພາບໃໝ່ອ່າງເປັນພີເຮີການ ຮວນຄົງມີການນອບປະກາຄນີ້ບັດຮັບແລະ ວຸຕົມບັດຮັບແກ່ຜູ້ສໍາເຮັດການສຶກສາ ນອກຈາກນີ້ ກາຍໃນງານຍັງມີພີເຮີນອບສຶກຮັບຄວາມເປັນນັກສຶກສາ (matriculation ພີເຮີຮັບເຂົ້າ ສຶກສາ) ຈັດຂຶ້ນເປັນສ່ວນหนື່ງຂອງງານ ແລະ ໄດ້ເຮັນເສີ່ງແກ່ຜູ້ມີເກີ່ວຕົມກ່ຽວກົງເປັນ ສັກຫີພຍານໃນພີເຮີດັ່ງກ່າວ

ໃນປີ 2025 ນີ້ໄດ້ພັນວົກງານຈົດລອງວາຮະຄຽບຮອບ 5 ປີຂອງການກ່ອຕັ້ງ NAS ທີ່ຈົດຮອບ ເນື້ອວັນທີ 18 ພຸດສັກຍານ 2025 ກ່າວມາ”

The Third Convocation and Matriculation

9.45 (Inside NAS)	<p><u>Internal ceremony</u></p> <p>NAS Director, faculty members and research staff stand by inside the NAS hallway</p>	<p>Musical Programs (in chronological order)</p> <ol style="list-style-type: none"> 1. The John Dunbar Theme (From "Dances with Wolves") (John Barry) 2. Pomp and Circumstance (Elgar) 3. Matera, from NO TIME TO DIE - (Hans Zimmer)
9.55	<p>Master of Ceremony (MC - Ms. Kanokwan Siridee) welcomes and informs program of the morning.</p>	
10.00	<p>Procession (in academic dress with NAS epitoge regalia)</p> <ol style="list-style-type: none"> 1. NAS Director and Professor: Burin Gumjudpai 2. Lecturer: Pradeep Bhadola 3. Lecturer: Kumar Abhinav 4. Lecturer: Thiti Sirithanakorn 5. Lecturer: Manabendra Sharma 6. Lecturer: Nandan Roy <p>Be seated outside at staff row are Vishal Chaudhary and Arpita Mitra (full gown without epitoge regalia)</p>	
10.05	<p>MC summons of NAS Director to the podium.</p> <p>NAS Director gives welcome speech and reports on NAS' activities and progress in the previous year from 5th October 2024 to 30th September 2025.</p>	
10.15	<p>Vice-President (or representative) addresses the congregation.</p>	

The Third Convocation and Matriculation

10.20	<p><u>Accepting of new staff members ceremony</u></p> <p>MC summons 1. Vishal Chaudhary 2. Arpita Mitra to the middle of the ceremony. NAS Director declares acceptance of membership of Vishal Chaudhary and Arpita Mitra. NAS Director decorates NAS' epitoge regalia to Vishal Chaudhary and Arpita Mitra.</p> <p>Vishal Chaudhary and Arpita Mitra proceed to the faculty row of chairs.</p> <p><u>Accepting of new associate ceremony</u></p> <p>MC summons 1. Seckson Sukhasena, Ph.D. (ผู้ช่วยศาสตราจารย์ ดร. เศกสรร สุขเสนา)</p> <p>to the middle of the ceremony. NAS Director declares acceptance of Seckson Sukhasena to the “Scholar Associateship”.</p> <p>NAS Director presents a “certificate of acceptance” and decorates epitoge regalia to the associate. A photograph is to be taken.</p>
10.45	<p><u>Matriculation ceremony</u></p> <p>MC summons new student to stand in front of the convocation. Student gives an oath.</p> <p>1 Mr. Kraiwut Dakam, (นาย ไกรวุฒิ ดาคำ) B.Sc. (Physics) First Class Hons. Silver Medal, (Phayao) and B.Ed. (Education) First Class Hons. Silver Medal, (Phayao)</p> <p>NAS Director declares that the new student is accepted.</p> <p>NAS Director decorates epitoge to student. The student walks forward and kneel for the wrist-tying blessing ceremony by the faculty one by one on his/her left hand. The order is (Burin Gumjudpai, Pradeep Bhadola, Kumar Abhinav, Thiti Sirithanakorn, Manabendra Sharma, Nandan Roy, Vishal Chaudhary and Arpita Mitra).</p>

The Third Convocation and Matriculation

10.45	<p>When doing wrist tying one by one, each faculty member says, “May my hand be your hand” “May my wisdom be yours” (ខោមីអគ្គុខោបីបែនមីអខោនៅទេ ខោបីមុន្តុខោអគ្គុខោបីបែនខោនៅបីមុន្តុនៅទេ)</p> <p>After finishing the wrist tying, new student proceeds to student seat in the NAS member zone.</p>
11.10	<p>NAS Director announces closing of the ceremony. Procession of staff back to NAS hallway.</p>
11.15	<p><u>Informal event</u></p> <p>MC calls for group photographing at the “white stand”. Everyone in the ceremony comes to join the event. MC invites staff and guests for the refreshments in a circle of chairs. MC invites each participant to express their feeling.</p>
(Morning Dress codes: academic dress or full formal or Traditional Dress)	
13.30	<p>NAS at 5th event Opening by NAS Director</p>
13.40	<p>NAS Director report on NAS progress in the first 5 years</p>
13.50	<p>Online Dialog Conversation: Sodcheun Wiboonsake and Burin Gumjudpai on “Paradigms of Physics, Single and Complex Systems and Other Ideas”</p>
14.20	<p>5 years NAS Research Summary in Theoretical High Energy Physics (Kumar Ahbinav)</p> <p>5 years NAS Research Summary in Complexities (Pradeep Bhadola)</p> <p>5 years NAS Research Summary in Cosmology and Gravitation (Nandan Roy)</p>
15.40	<p>Closing</p>
(Afternoon Dress codes: full formal or Traditional Dress)	

Oath given by graduand

“I, ...name and surname..., shall realize in the values of knowledge and wisdom earned from the faculty of the Nakhonsawan Studiorum for Advanced Studies.

I shall use them for good and righteousness.

I shall use them with kindness for the sake of mankind. I shall possess the knowledge without arrogance nor looking down upon other people.

I shall hold ethical aspects of a scholar. I shall keep this vow for the honor and dignity of myself and of the Nakhonsawan Studiorum for Advanced Studies as long as my life.”

ข้าพเจ้า นาย นางสาว... จະตระหนักໃນคุณค่าแห่งความรู้และปัญญา ที่ได้รับจากคณาจารย์แห่งสิกขาลัยเพื่อการค้นคว้าขึ้นก้าวหน้า ข้าพเจ้าจะใช้ความรู้และปัญญานี้เพื่อความถูกต้องและความชอบธรรม ข้าพเจ้าจะใช้ความรู้และปัญญานี้ด้วยความเมตตาเพื่อประโยชน์ ของมวลบุษย์ ข้าพเจ้าจะทรงความรู้นี้ไว้โดยปราศจาก ความหยิ่งยโสโอหัง ความลำพองตน หรือการโอ้อวดดูหมิ่นดูถูกผู้อื่น ข้าพเจ้าจะดำรงไว้ซึ่งคุณธรรมแห่งบัณฑิต ข้าพเจ้าจะรักษาคำปฏิญาณ ตนนี้ไว้เพื่อเกียรติยศและเกียรติภูมิแห่งตัวข้าพเจ้าเอง และเกียรติยศและเกียรติภูมิแห่งสิกขาลัยเพื่อการค้นคว้าขึ้นก้าวหน้า

Oath given by new student

“I, ...name and surname..., realize in the values of knowledge and wisdom to be earned from the faculty of the Nakhonsawan Studiorum for Advanced Studies. As a student, I shall be diligently study and mindfully serve the studiorum for its honour. I shall be humble to learn the knowledge without arrogance nor looking down upon other people.

I shall hold moral character of a student.

I shall respect good efforts, kindness and honor of teachers of the studiorum.

I shall keep this vow for the honor and dignity of myself and of the Nakhonsawan Studiorum for Advanced Studies as long as my life.”

ข้าพเจ้า นายนางสาวจะตระหนักในคุณค่าแห่งความรู้และปัญญาที่จะได้เรียนจากคณาจารย์แห่งสิกขาลัยเพื่อการค้นคว้าขั้นก้าวหน้า ในฐานะศิษย์ข้าพเจ้าเรียนด้วยวิริยะอุตสาหะและเต็มใจร่วมรับใช้สิกขาลัยเพื่อเกียรติของสิกขาลัย ข้าพเจ้าจะอ่อนน้อมถ่อมตนในการเรียนรู้ความรู้ต่างๆ โดยปราศจากความหยิ่งยะโสโอหัง ความลำพองตน หรือการโอ้อวดดูหมิ่นดูถูกผู้อื่น ข้าพเจ้าจะดำรงไว้ซึ่งคุณธรรมแห่งศิษย์ ข้าพเจ้าจะเคารพความพยายาม ความเมตตา และเกียรติของคณาจารย์ ของสิกขาลัย ข้าพเจ้าจักรกษาคำปฏิญาณตนนี้ไว้ เพื่อเกียรติยศและเกียรติกูมิแห่งตัวข้าพเจ้าเองและเกียรติยศ และเกียรติกูมิแห่งสิกขาลัยเพื่อการค้นคว้าขั้นก้าวหน้า

Introduction to NAS

Centre for Theoretical Physics and Natural Philosophy

“Nakhonsawan Studiorum for Advanced Studies” (NAS) is a departmental structure under the Office of the President of Mahidol University. NAS locates at the university’s Nakhonsawan campus project in Khao Thong Village, Payuha Khiri District, Nakhon Sawan, Thailand. The campus is approximately 220 km north of Bangkok.

NAS is a studiorum, that is an academic ecological system of fostering new knowledges and new concepts in descriptions of natural systems or even social systems via the scenario of physics and its theoretical philosophy. Based on concepts of critical reasoning, NAS explores universal aspects of theories for various systems. NAS enjoys asking of what good theories should be like and what should be a central ideas of the “theory of theories”. Not only looking for beautiful theories of nature, NAS as well looks for beautiful nature of theories. These concepts could sprang from critical and thoughtful observations. NAS visualizes theoretical physics research, not only, as synthesizing new knowledge but also new views of how we look at theories. At present, NAS’s research areas are:

1. cosmology and gravity
2. mathematical physics and theoretical high energy physics
3. complexities
4. thermodynamics formulation of economics and social systems.

Introduction to NAS

NAS styles its terms as named academic terms to honor great scientists in the fields of high energy physics, cosmology and complexities. These are

1st term: Dirac's term

2nd term: Sciama's term

Summer term: Boltzmann's term

At NAS, series of Khongthong Seminars is our traditional seminar series. Apart from this, other technical seminal meeting such as cosmology journal club, cosmology hand-on discussion, complexity@2pm and Eulers clinic are also run regularly.

NAS' Key Value: "Simple and Elegance"

NAS Academic regalia

NAS offers academic program towards Mahidol University's Doctor of Philosophy degree program in Theoretical Physics and Natural Philosophy and NAS' own certifications. Academic regalia of NAS members are designated with their academic epitopes decorated with ribbon or/and rope with colours as follow,

NAS Director [ribbon: Magenta, Purple]

[ริบบินสีบานเย็น ทับเฉียงบบ ริบบินสีม่วงอ่อน]

NAS Faculty and Adjunct Professors [ribbon: Yellow, Purple]

[ริบบินสีเหลือง ทับเฉียงบบ ริบบินสีม่วงอ่อน]

NAS Research Staff [ribbon: Purple, Ocean Green]

[ริบบินสีม่วงอ่อน ทับเฉียงบบ ริบบินสีเขียวมหาสมุทรส]

Certificate of Advanced Studies in Theoretical Physics

CertAdvSt (Theoretical Physics)

ประกาศนียบัตรการศึกษาชั้นสูงทางฟิสิกส์กุณฑี

[a pair of rope: red, one rope: grey][เชือกสีแดง 2 เส้น เชือกสีเทา 1 เส้น]

Certificate of Advanced Studies in Complexities

CertAdvSt (Complexities)

ประกาศนียบัตรการศึกษาชั้นสูงทางสภาพชับช่อน

[a pair of rope: yellow, one rope: grey]

[เชือกสีเหลือง 2 เส้น เชือกสีเทา 1 เส้น]

Diploma of Research

DipRes

วุฒิบัตรวิจัย

[ribbon: ocean green][ริบบินสีเขียวมหาสมุทรส]

NAS Academic regalia

Certificate in Graduate Physics

CertGradPhys

ประกาศนียบัตรพิสิกส์บัณฑิตศึกษา

[a pair of rope: pink][เชือกสีชมพู 2 เส้น]

Certificate of Paradigms Studies in Elementary Physics

CertPStEPhys

ประกาศนียบัตรกระบวนการค้นคว้าศึกษาในพิสิกส์ขั้นต้น

[a rope: purple][เชือกสีม่วงอ่อน 1 เส้น]

NAS Honorary Fellows [ribbon: Purple] [ริบบันสีม่วงอ่อน]

NAS Associates, Supporting Staff and Students without NAS qualification [epitoge without decoration] [epitoge เปล่า]

Reports to the Convocation

(18 November 2020-30 September 2025)

Brief Timelines

- 23 Sept 2020 Burin Gumjudpai's arrival
- 2 Nov 2020 First temporary office NAS 1 in Science Lab Bld-MUNA.
- 7 Nov 2020 NAS establishing project joins SIP+ Consortium as the 20th member.
- 23 Nov 2020 Burin Gumjudpai appointed as NAS Acting Director
- 18 Nov 2020 Mahidol University Council approves the NAS establishing proposal.
- 1 March 2021 Nandan Roy, Pradeep Bhadola and Kumar Abhinav join NAS.
- 3 June 2021 Using of NAS 2 (Plainuen Cottage)
- 12 July 2021 First lecture of the first NAS PhD prep course, classical dynamics,
- This is proceeded by the First Khaothong Seminar Series 1 no. 1. Academic terms are announced in the seminar to be dubbed, 1st term: Dirac's term | 2nd term: Sciama's term | Summer term: Boltzmann's term.
- 16-07-2021 NAS Thai name for “studiorum” is changed from อาคารมหาชลัย to สิกขาลัย.
- 2 August 2021: Burin Gumjudpai appointed as Professor of Theoretical Physics, retroactive from March 2019
- 17 August 2021: NAS Cosmology Journal Club Season 1
- 28 Oct 2021: Mahidol University awards a 5 million THB-MRC grant to NAS.
- 2 July 2022:
 - the little blue (our portable NAS logo light tablet, our first NAS logo sign) arrived NAS 1.
 - 1-3 July 2022: NAS runs its first NAS Academy on Paradigms of Physics

Reports to the Convocation

(18 November 2020-30 September 2025)

Brief Timelines

- 5 July 2022: NAS Channel launched.
- 16 July 2022: Newton Society of Khaothongpittayakhom School was created.
- 1 August 2022: Thiti Sirithanakorn joins NAS.
- 1 September 2022: Masroor C. Pookillath (first postdoctoral research fellow) started his job.
- 15-18 September 2022: NAS Research Workshop 1 @ Uthai Riverlake
- 16 November 2022: Ph.D. program approved by Mahidol University Council. “NAS White Stand” banner is installed.
- 13 December 2022: Staff move their offices to NAS studiorum.
- 6 February 2023: Manabendra Sharma joins NAS.
- 20 March 2023: Inauguration of NAS office
- 24 May 2023: Ph.D. admission interview for the first time.
- 31 May 2023: Euler's Clinic is initiated.
- 7 June 2023: Cafe Principia opening
- 30 June-2 July: The 2nd NAS Academy on Paradigm of Physics
- 20 – 23 July 2023: The 1st NAS Basic Camp
- 5 August 2023: 2nd Cafe Fisica at Good Old Days Cafe' and Bistro
- 7 August 2023: first-PhD lecture
- 4 October 2023 (15.30): Diploma of Research, Certificate in Graduate Physics, Certificate of Advanced Studies in Theoretical Physics and Certificate of Advanced Studies in Complexities programs open.

Reports to the Convocation

(18 November 2020-30 September 2025)

Brief Timelines

(5 October 2023 – 30 September 2024)

- 26 October 2023 (9.30): NAS' First Convocation and Matriculation
- 11 January 2024 (17.11): “Arrival of Mitri”
A seven-meter high **ตับกระเพี়้ে়** (Millettia brandisiana Kurz) twisted with **ตับคุ่মbek** (sacred garlic pear or temple plant) is planted today at 17.11 near the “White Stand”.
- 26-27 January 2024 (18.00-22.00): The 3rd and the 4th Cafe Fisica at Beuang Borraped Park
- 31 January 2024: Mahidol University appoints Prof. Burin Gumjudpai as NAS director. The appointment is retroactive from the 24 January 2024.
- 10-14 June 2024: NAS hold “CosmoGravitas”
- 13 July 2024: The 6th Cafe' Fisica Public Forum at Good Old's Day Cafe'
- 12-13 September 2024: The 24th NAS Mana Physics Camp at Phaisali Pittaya School
- 19 September 2024: 2024 NAS Seminar Day

Reports to the Convocation

(18 November 2020-30 September 2025)

Brief Timelines

(1 October 2024 – 30 September 2025)

- 1 October 2024: Burin Gumjudpai is appointed “Adjunct Professor” of the Faculty of Science of Naresuan University.
- 4 November 2024: SciNUxNAS Theoretical Physics Box kicking off
- 17 to 19 March 2025: The 1st NEXUS Conference at NAS
- 27,28,29 March 2025: The 9th SIP+ Fest School “Function of Complex Variable in Physics” at NAS
- 13 June 2025: Dr. Nandan Roy is awarded “Best Oral Presentation Prize” on his talk “Dynamical Dark Energy in the Light of Current Cosmological Observations” at the 20th Siam Physics Congress (2025) in Khon Kaen
- 23–27 June 2025: The 7th SHEAP Summer School at NAS
- 24 June 2025: Dr. Vishal Chaudary received Materials Today Agents of Change Award (2023)
- 1 September 2025: Prof. Shinji Tsujikawa (Waseda University) and Prof. Antonio De Felice (Yukawa Institute for Theoretical Physics, Kyoto University) appointed as “Adjunct Professor” at NAS. The position terms are five years.
- 8 September 2025: Prof. Roy Maarten (University of the Western Cape, South Africa and University of Portsmouth, UK) delivers his honourary lecture at NAS

Reports to the Convocation

(18 November 2020 – 30 September 2025)

NAS People up to 30 September 2025

- Faculty Members: 8
- Adjunct Professors: 2
- Research Staff: 0
- Visiting Research Staff: 1
- Supporting Staff: 2 + 1 (P/T Project Funded)
- Ph.D. Students: 5
- Diploma Students: 2
- Hon. Fellows: 2
- Space Communicator Associates: 2
- Teacher Associates: 3

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