

NTHU THz Optics & Photonics Center

<http://topcenter.site.nthu.edu.tw/index.php>

2022 Service Plan (valid until Sep. 30, 2022) (a dollar-to-dollar-match program)

Service Team

Secretariat

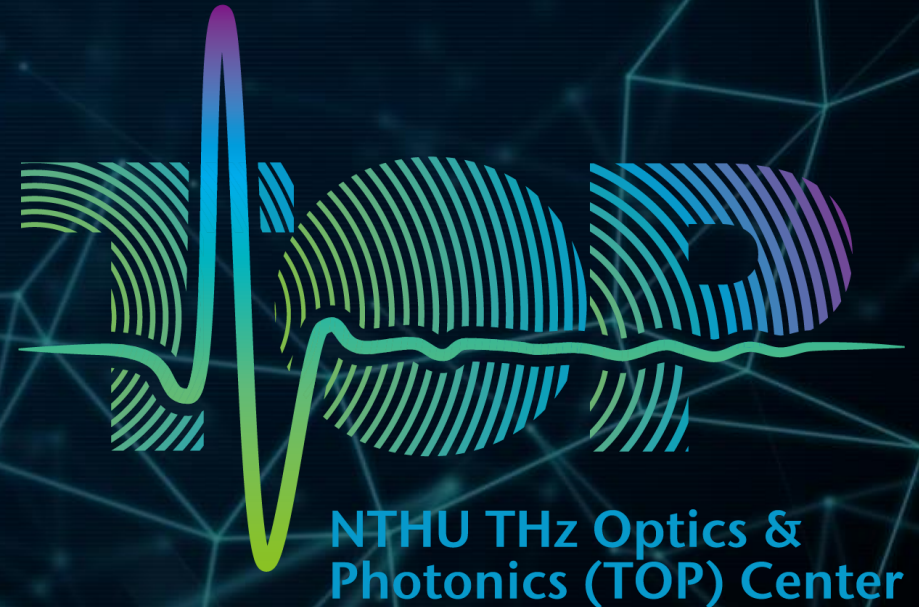
林天慧 (03-5162340, lin_th@gapp.nthue.edu.tw),

Engineering

Alexey Kopyenkin (a.kopeykin@mx.nthu.edu.tw),
Evgeny Kalinovets (e_kalinovets@gapp.nthu.edu.tw)
Dr. Xuan Long Ho (xuanlongho@gapp.nthu.edu.tw)

Directorate

黃衍介 (ychuang@ee.nthu.edu.tw)、劉怡君 (jennyliu@gapp.nthu.edu.tw)、
楊尚樺 (shanghua@ee.nthu.edu.tw)



2022 Theme: Generating opportunities in the areas of THz and/or Optics and/or Photonics through collaborations.

• TOP-Center Service Facilities

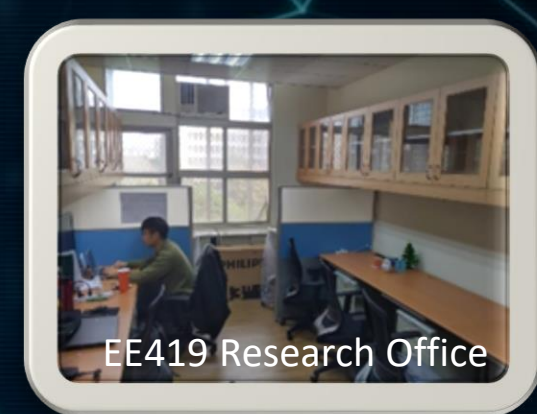
(1) Optics lab course (offered since 2019)



summer optics-lab course



EE420 teaching lab



EE419 Research Office

(2) Computer cluster with simulation tools, such as CST

功能	CPU [cores]	Memory [GB]	Hard Disks [個數/RAID架構/實際可用硬碟空間]	# of R640 [台數]
Cluster master	8 * 2	16 * 4	2 + 2 1.8 TB 2個，第一組RAID1 掛載 "/" 1.8 TB 2個，第二組RAID1 掛載 "/opt" 實際可用硬碟空間 3.6 TB	1
NIS/DHCP	8 * 2	16 * 2	2 600 GB 2 個，一組RAID1 掛載 "/" 實際可用硬碟空間 600 TB	1
NFS	8 * 2	16 * 2	8 1.8 TB 8個，一組RAID5 掛載 "/home" 實際可用硬碟空間 10.8 TB	1
Computing node	8 * 4	16 * 4	2 600 GB 2 個，一組RAID1 掛載 "/" 實際可用硬碟空間 600 TB	4



(3) THz TDS, THz FDS, FTIR, TEM, optical coating/sputtering, lithography, precision wafer dicing (refer to <http://topcenter.site.nthu.edu.tw/p/412-1488-15938.php>)

Proudly serving more than 20 users!

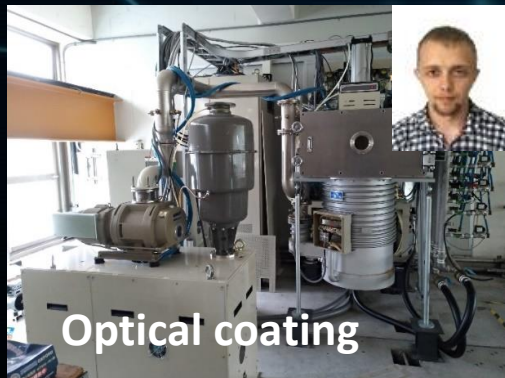
THz/Millimeter-wave 量測核心設施



sputter



Mask aligner



Optical coating



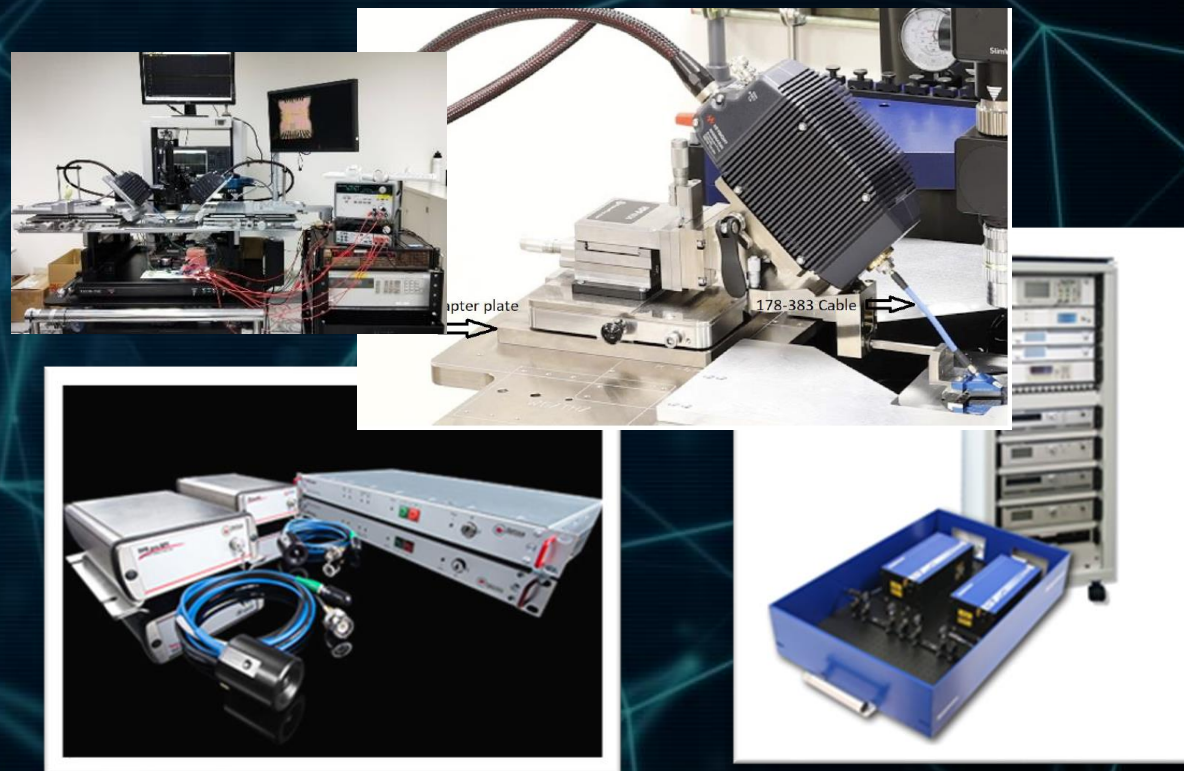
Wafer dicing



TEM



spectrophotometer



TeraScan Frequency-Domain Terahertz Platform

High-Speed Terahertz ASOPS Time-Domain Spectrometer

2022 Dollar-to-dollar-match Program

1. Plan-A (eligible for professor + off-site collaborator*)

(1) An off-site collaborator requests a test on some idea with a professor and pays an amount** “A” to the Center.

(2) **Our Dollar Match:** The Center pays a collaboration fund of “A+A = 2A” to the professor to assist the study proposed by the collaborator. (spent by Sep. 30th, 2022).

2. Plan-B (eligible for professor + off-site collaborator)

(1) An off-site collaborator requests a service*** from the Center and pays a service fee “B” to the Center.

(2) **Our Dollar Match:** The collaborator receives a service and the professor who runs the service is paid by the Center with a work support of “B” (spent by Sep. 30th, 2022).

3. Plan-C (eligible for our professors only)

(1) You request a service** and pay an amount “C” to the Center.

(2) **Our Dollar Match:** The Center supports you a research upgrade fund of an equal amount “C” (expiring on Sep. 30st, 2022). (**So, you get a free service!**)

* An off-site collaborator includes individuals from both industries and academics outside NTHU.

** The TOP Center assumes no responsibility for the details and outcomes of a collaboration negotiated between a professor and any entity. Individuals should observe relevant regulations and rules when working together.

*** Examples of the Center services include 75,000 NT/year/account for the simulation cluster, 3,000 NT/student for the optics lab-course training (to pay for the rent for EE419 space), or an negotiated amount for the optical coating, TDS/spectrophotometer measurement, precision wafer dicing, cleanroom access, TEM scan services etc. (<http://topcenter.site.nthu.edu.tw/p/412-1488-15938.php>)

**** To be considered, talk to professors/administrators and submit 1-page request to Ms. 林天慧 (x62340, lin_th@gapp.nthue.edu.tw). First come, first serve. Priority is granted to members who served, attended, delivered results, are connected, or intend to join or contribute to the Center. Upon closing a case, post a half page summary of the case to the TOP website.