



Tentative Program

Workshop on Diamond-Like Carbon Technology

Plasma Processes, Thin-Film Engineering, and Characterization Tools

16-17 March 2026

at Royal Hills Golf Resort & Spa, Nakorn Nayok, Thailand

16 March 2026

<i>Time</i>	
09:00-09:30	<u>Registration</u>
09:30-09:50	Welcome Speech by Dr. Pinit Kidkhunthod, Chief, Synchrotron Research and Applications Division, SLRI, Thailand
09:50-10:00	Group Photos
10:00-10:45	Diamond-Like Carbon (DLC) Technology Trends in Thailand: <i>Current Status and Industrial Opportunities</i> by Dr. Sarayut Tunmee, Chief, Organization Strategy Division, SLRI, Thailand
10:45-11:00	Coffee Break
11:00-12:00	From Atoms to Applications: <i>Understanding Physical Vapor Deposition (PVD) in Thin Film Technology</i> by Asst. Prof. Dr. Phitsanu Poolcharuansin
12:00-13:00	Lunch
13:00-14:00	Advancing Coating Technology Through CVD: <i>Fundamentals and Emerging Innovations</i> By Asst. Prof. Dr. Artit Chingsungnoen
14:00-14:10	Organize into groups (7-10 groups) by Staff (Laptop setting)
14:10-14:40	Raman Spectroscopy in Material Characterization: <i>Linking Bonding Structure to Material Performance</i> By Dr. Anthika Lakhonchai
14:40-14:50	Coffee Break
14:50-16:50	<i>(Hand-On)</i> Probing Carbon Bonding Structure and Disorder in DLC Films Using Raman Spectroscopy Dr. Nopphon Saowiang/ Dr. Anthika Lakhonchai



16:50-17:00 **Wrap-Up Discussion & Q&A**

18:00-20:00 **Dinner Banquet**

17 March 2026

08:30-09:00 **Registration**

09:00-09:30 **X-ray Photoelectron Spectroscopy (XPS) for Surface and Interface Analysis: *Understanding Chemical States in Advanced Materials***
By Dr. Ratchadaporn Supruangnet

09:30-11:30 ***(Hand-On)* Chemical State and sp^2/sp^3 Bonding Analysis of DLC Films by XPS**
By Dr. Thitikorn Chamchuang/ Dr. Ratchadaporn Supruangnet

10:30-10:45 **Coffee Break (During XPS Hands-On Session)**

11:30-12:00 **Near-Edge X-ray Absorption Fine Structure (NEXAFS): *Probing Electronic Structure and sp^2/sp^3 Bonding in Thin Films***
By Dr. Ukit Rittihong

12:00-13:00 **Lunch**

13:00-15:00 ***(Hand-On)* Understanding sp^2/sp^3 Bonding and Local Structure in DLC Films through NEXAFS**
By Dr. Ukit Rittihong/ Dr. Sarayut Tunmee

15:00-15:15 **Coffee Break**

15:15-16:00 **Group Presentations and Closing Remarks**