

46th Annual National Conference
Association of Medical Physicists of India (AMPI)
AMPICON 2025
4th - 6th December | Guwahati



Hall A (4 th December, 2025)	
Time	Event Details
7:30 am - 9:00 am	Registration & Breakfast
9:00 am -10:00 am	Inauguration
10:00 am - 11:00 am	<p><u>Plenary Session I: AMPI Dr. Ramaiah Naidu Memorial Oration 2025 by B S Rao</u></p> <p>Chairpersons: Manoj K Semwal & Anuj Tyagi</p>
11:00 am - 11:30 am	Tea Break & Exhibition Hall Opening
11:30 am - 12:40 pm	<p><u>Scientific Session 1: Artificial Intelligence</u></p> <p>Chairpersons: Manickam Ravikumar & K Krishnamurthy</p> <p>I1: “Impending Challenges of AI: Understanding the Big Data” <i>Invited talk by Nirmal Painuly</i></p> <p>I2: “Redefining Medical Image Vision Through the AI Lens” <i>Invited talk by Anuj Tyagi</i></p> <p>O1: “To develop and validate Knowledge based Planning of VMAT for Craniospinal Irradiation” <i>by Udita Upreti</i></p> <p>O2: Predicting pCR in LARC: Radiomic Modelling from Pre-Treatment CT Using an Automated Python Pipeline <i>by Liya Muthukulathil Antony</i></p> <p>O3: “Development of Knowledge based planning model for Prostate Node Positive Stereotactic Body Radiation Therapy with empty bladder v” <i>by Jeevanshu Jain</i></p>
12:40 pm - 1:30 pm	<p><u>Scientific Session 3: Recent Advances in Radiotherapy Technology</u></p> <p>Chairpersons: Challapalli Srinivas & Alok Kumar</p> <p>V1: “The Relevance of Dedicated SRS Systems vs Multimodality C-Arm Linacs in Modern Radiosurgery” <i>by Jerrin Amalraj</i></p> <p>V2: “Enhancing Radiotherapy Planning Efficiency through Monaco Scripting Automation” <i>by A Pichandi</i></p> <p>V3: “Commissioning and Clinical Validation of RapidPlan Models” <i>by Biplab Sarkar</i></p>



1:30 pm - 2:30 pm	Lunch & Social Time
2:30 pm - 3:30 pm	<p style="text-align: center;"><u>Vendor Talks Session I</u></p> <p style="text-align: center;">Chairpersons: Vinod Kumar Dangwal & Venkataraman Poopathi</p> <p>I: “SGRT Application by C-RAD in NCRI Hospital” <i>by Alok Kumar (C-Rad)</i></p> <p>II: “Recent Developments in Delta4 Phantom Plus by ScandiDos” <i>by Muhammad Ikhwan bin Salleh (scandidos)</i></p> <p>III: “Unlocking Better Outcomes with Surface Guided Clearance Mapping (MapRT)” <i>by Robin Baweja (Oregon)</i></p> <p>IV: “Online adaptive with Elekta Evo – Adapt at your own Rhythm” <i>by Vaitheeswaran (Elekta)</i></p> <p>V: “RayStation Overview” <i>by Manjinder Kaur (Raysearch)</i></p> <p>VI: “Adaptive suite with the Radixact System” <i>by Krishna Ramesh (Accuray)</i></p>
3:30 pm – 4:30 pm	<p style="text-align: center;"><u>Scientific Session 6: Recent Advances in Biological Modelling of Radiotherapy</u></p> <p style="text-align: center;">Chairpersons: K M Ganesh & D K Ray</p> <p>I3: “Improving Radiotherapy Outcomes through TCP and NTCP modelling” <i>Invited talk by Alan E Nahum</i></p> <p>I4: “Advancing Personalized Radiation Therapy through Emerging Technologies and Biological Insights” <i>Invited talk by Vanessa Panettieri</i></p> <p>I5: “Clinical Interpretation of Whole Genome Sequencing for Genome-Guided and Personalized Radiation Therapy” <i>Invited talk by K R Murlidhar</i></p>
4:30 pm - 5:00 pm	High Tea
5:00 pm – 6:00 pm	<p style="text-align: center;"><u>Plenary Session II: Medical Physics Education in India & NCAHP</u></p> <p>Moderator: A K Rath</p> <p>Panellist: P K Hota, Manoj K Semwal, P K Dash Sharma, Rajesh Kumar & S Sowmya Narayanan</p>
7:30 pm Onwards	Gala Dinner at Greenwood Resort

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Hall B (4th December, 2025)

Time	Event Details
7:30 am -9:00 am	Registration & Breakfast
9:00 am -10:00 am	Inauguration in Hall A
10:00 am -11:00 am	Plenary Session in Hall A
11:00 am - 11:30 am	Tea Break & Exhibition Hall Opening
11:30 am - 12:30 pm	<p><u>Scientific Session 2: Brachytherapy-I</u> Chairpersons: Lalit M Aggarwal & Mary Joan</p> <p>I6: “Recent Advances in Brachytherapy” <i>Invited talk by K Thayalan</i></p> <p>O4: “A Comparative Analysis of Dose to Organs-at-Risk in Co-60 HDR Brachytherapy for Cervical Cancer using the Monte Carlo toolkit egs_brachy and a Commercial Treatment Planning System” <i>by Megha Rai</i></p> <p>O5: “Design and Development of Interstitial-Intracavitary Gynaecological Brachytherapy Applicator” <i>by Muthukarthikeyan G</i></p> <p>O6: “Validity of using X-Ray Beam Calibration for Beta Dosimetry: An Uncertainty Analysis” <i>by Harishchandra Gupta</i></p> <p>O7: “Impact of Optimization Strategy on Dose Distribution in Intracavitary Brachytherapy for Cervical Cancer: Manual Versus Inverse Planning” <i>by Sumanth G Madivala</i></p>
12:30 pm - 1:30 pm	<p><u>Scientific Session 4: Particle Therapy</u> Chairpersons: Karthikeyan S & Kaliyappan P</p> <p>I7: “Adaptive Proton Therapy: Challenges and Emerging Opportunities” <i>Invited talk by Dayananda Sharma</i></p> <p>I8: “The Next Leap in Particle Therapy — The Era of Proton Arcs” <i>Invited talk by Suresh Rana</i></p> <p>O8: “Evaluating the feasibility of beam matching between independently commissioned proton therapy gantry treatment rooms” <i>by Chithambara Prabu</i></p> <p>O9: “Design, Manufacturing and Validation of Hybrid Apertures for Stereotactic Treatments with Pencil Beam Scanning Proton Therapy” <i>by Kantaram Popat Darekar</i></p>



1:30 pm - 2:30 pm	Lunch & Social Time
2:30 pm - 3:30 pm	<p style="text-align: center;"><u>Scientific Session 5: Dosimetry and Microdosimetry</u> Chairpersons: L S Arunkumar & M Nara Singh</p> <p>O9: “Microdosimetry in Radiotherapy” <i>Invited talk by T Palani Selvam</i></p> <p>O10: “A Comparative Evaluation of Multiple Detectors in Dosimetric Parameters Using Flattening Filter Free Photon Beams for High Precision Radiotherapy” <i>by Syed Fiza Mohammed Aslam</i></p> <p>O11: “A Dosimetric and Plan Quality Comparison of the VOLO Classic and VOLO Ultra Optimization Algorithms for Total Marrow and Lymphoid Irradiation (TMLI)” <i>by Rajesh S</i></p> <p>O12: “Evaluating Mean Heart Dose as a Predictor of Cardiac Substructure Exposure in Left-Sided Breast Cancer Radiotherapy” <i>by Deepali Bhaskar Patil</i></p> <p>O13: “Development of graphite thin-walled homogeneous spherical ionization chamber for dosimetry of kilovoltage x-ray beams” <i>by Sudhir Kumar</i></p>
3:30 pm - 4:30 pm	<p style="text-align: center;"><u>Scientific Session 7: Basic Science & Research Papers I</u> Chairpersons: Biswajit Nath & Mukesh Zope</p> <p>O14: “Management and maintenance of radio-diagnostic machines in a large clinical setup” <i>by Raj Kishor Bisht</i></p> <p>O15: “Comprehensive Dosimetric Evaluation of Integral Dose and Intermediate Dose Spill in Hyper Arc vs. Conventional VMAT for Brain Metastases SRS” <i>by Srimanta Pramanik</i></p> <p>O29: “Simultaneous Integrated Boost vs. Sequential Boost in Breast Cancer Radiotherapy: A Comprehensive Analysis of Dosimetric, Radiobiological, Cost- Effectiveness” <i>By Jobairul Islam</i></p> <p>O17: “Advancing AI-Based Parotid Segmentation: Role of Composite Loss Functions in 3D U-Net Models” <i>by Mohini Manav</i></p> <p>O18: “Investigation of variation in Surface dose in high energy photon beams due to Couch & Immobilization devices” <i>by P Sabari Kumar</i></p> <p>O19: “Dosimetric Feasibility of Discrete-Step Proton Arc Therapy on IBA Proteus Plus” <i>by Manimala Devi Konthoujam</i></p>

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4:30 pm - 5:00 pm	High Tea
5:00 pm – 6:00 pm	<u>Plenary Session in Hall A</u>
7:30 pm Onwards	Gala Dinner at Greenwood Resort

Hall C (4th December, 2025)

Time	Event Details
7:30 am - 9:00 am	Registration & Breakfast
9:00 am -11:00 am	Inauguration & Plenary Session in Hall A
11:00 am – 11:30 am	Tea Break & Exhibition Hall Opening
12:30 am – 1:30 pm	Live demonstration of RapidArc Dynamic Workshop by M/s Varian Medical Systems
1:30 pm – 2:30 pm	Lunch & Social Time
2:30 pm – 4:30 pm	AMPI EC Meeting
4:30 pm – 5:00 pm	High Tea
5:00 pm – 6:00 pm	Plenary Session in Hall A
7:30 pm Onwards	Gala Dinner at Greenwood Resort