AMPICON 2026

■ Physics & Imaging ■ Clinical & Radiobiology ■ Professional & Patient-Centric ■ Student Flash Wave ■ Plenary & Oration

Day 1: Thursday, 10 December 2026

Time	Röntgen Hall
09:00 - 09:30	Opening Remarks: Setting the Wave of Patient-Centricity
09:30 - 10:15	**Symposium 1: Online & Offline Adaptive RT (ART)** Session Moderators: TBD **I1**: Uniting the Clinical Team for Adaptive Radiotherapy: Overcoming Implementation and Cultural Barriers - **Dr. Suresh Cahaudhari, Hyderabad** (15 Mins) **I2**: Invited Speaker 25 mins: Emerging Opportunities with Adaptive Radiation Therapy – **Dr. Paul Keall, Australia** (20Mins)
10:15 - 11:00	**Plenary Session 1: AMPI Dr. Ramaiah Naidu Memorial Oration 2026 by Dr. Bhaskaran K Pillai, Kochi** Oration Address: Medical Physics in India: Past and Future Chairpersons: Dr.Manoj K Semwal, Dr. Anuj Tyagi
11:00 - 11:30	Coffee & Networking Break

11:30 - 13:00	**Symposium2: Precision in Action: From Functional Radiosurgery to Ultra-Hypofractionated SBRT** Session Moderators: TBD **I3**: Functional Radiosurgery: From Submillimeter Imaging to Accurate Delivery –**Dr. Thierry Gevaert, Belgium** (20Mins) **I4**: Sub-Millimeter End-to-End QA: Pushing the Boundaries of Intracranial Radiosurgery – **Dr. Shiv Srivastav, USA** (15Mins) **I5**: Ultra-Hypofractionated SBRT for Central Lung Tumors: Dosimetric Constraints and Outcomes – **Dr. Goddu,Sreekrishna, USA** (15Mins) **I6**: Radioiology of Steriotactic Radiotherapy: Linking Dose and fractionation to tumor and Normal tissue response - **Dr. Manju Sharma, USA**(15Mins) **O1**:AMPICON26_ABS_E1698: Determination of the optimal prescription isodose level in stereotactic body radiotherapy (SBRT) for hepatocellular carcinoma: A Dosimetric and Radiobiological Evaluation - **Dr. Ranjit Singh, Chandigarh**
13:00 - 14:00	Lunch Break & Poster Viewing
14:00 - 15:30	**Symposium 3: MR-Guided Radiotherapy** Session Moderators: TBD **I7**: Real-Time Gating and Tracking under 1.5T MR-Linac Architecture - **Mr Malhotra, Fortis, Delhi** (15mins) **I8**: Characterizing Electron Return Effect (ERE) at Tissue Interfaces in MR-Linac - **Dr. Indra Das, USA** (20Mins) **I9**: Seeing While Treating: The MR-Linac Revolution in Image-Guided Adaptive Radiation Oncology **– Dr. Dinesh Tawatia, USA** (15Mins) **I10**: Beyond IGRT: True Adaptation in Radiation Oncology Practice - **Dr. William Starbuck** (15 mins) **O2**: AMPICON26_ABS_P3269: A Deep Learning Framework for 3D Dose Distribution Prediction in Radiotherapy Treatment Planning - **Dr. Niyas Puzhakkal, Kozhikode**
15:30 - 16:30	**Panel Discussion 1: From promise to practice: Overcoming the economic, Clinical, and Manpower bottlenecks of Adaptive Radiotherapy**

	Moderator: **Dr. Sathiya Narayanan, Pune** Panelists: Dr. Pichandy, Bengaluru Dr. Vendhan Subramani, Chennai Dr. Anand Jadhav, Mumbai TBD
17:00 onwards	**Inauguration Program Followed by Gala Dinner**

Day 2: Friday, 11 December 2026

Time	**Röntgen Hall**
9.00 - 10:15	**Symposium 4: AI & Big Data in Physics** Session Moderators: TBD **I11**: Deep Learning Architectures for Autosegmentation in Radiation Oncology: From Clinical Contouring to New Brain Tumour Lesion Detection - **Dr. Prabhakar Ramachandran, Australia** (20Mins) **I12**: Training the Next Generation of Medical Physicists in Artificial Intelligence – **Dr.El Naqa, Issam M, USA** (20 Mins) **I13**: AI in radiotherapy: what a physicist needs to know - **Dr. Verbakel, Wilko, Amsterdam UMC**
10:15 - 11:00	**Plenary Session 2: AMPI Dr. P. S. Iyer Memorial Oration 2026 by Prof Ajay Kumar Shukla, Luknow** Oration Address**:** Next Generation Nuclear Medicine-Challenges and Opportunities Chairpersons: 1. Dr. V Subramani, New Delhi, 2. Dr. C P Bhat, New Delhi

11:00 - 11:30	**Coffee & Networking Break**
11.30 – 12.00	**Scientific Session 1**: **Advancements in Ring Gantry Linac** Session Moderators: TBD **I14**: Latest Advancements in the Ring Gantry Linac / O Gantry Linac **- Jahnabi Das, Varian (15Mins)** **O3**: AMPICON26_ABS_C4279: Effect of Absolute Dose Measurement Depth and Revised Beam Quality Correction Factors on PBS Proton Beam Modelling and Reference Dosimetry - **Mr. Rohidas Punde, Mumbai**
12.00– 13.00	**Panel Discussion 3: AMPI-AROI Joint Session: Beyond the Hype: How will Artificial Intelligence reshape my daily Clinical practice?** Moderator: **Dr. Raghavendra Holla, Pune** Panelists: Dr. V Kannan, Mumbai Dr. Bhooshan Zade, Pune Dr. S N Senapati, President AROI Dr. A K Rath, Bhubaneshwar Dr. Manoj Semwal Delhi
13:00 - 14:00	Lunch Break & Poster Viewing
14:00 - 15:00	**Symposium 5: High-Precision Photon Delivery** Session Moderators: 1. **I15**: Hyper sight Commissioning: From Image Quality Validation to CBCT – Based Dose calculation for ART **- Dr. Reena Phurailatpam, Mumbai** (15Mins) **I16**: Unflattened Beam Dynamics: Maximizing Efficiency in High-Dose Delivery - **Dr. Afua Yorke, USA** (20Mins)

	O4: AMPICON26_ABS_V4372: Dosimetric Evaluation and Machine-Specific Sensitivity Analysis of an Enhanced Leaf Model (ELM) for Dose Calculation in a Commercial Treatment Planning System. **Mr. Anil Kumar, Mathura** **O5**: AMPICON26_ABS_M5228: To design an automated framework for daily QA using EPID and Pylinac libraries, **Dr. Pawan Kumar Singh, New Delhi**
15:00 - 17:00	**Golden Jubilee Plenary Event: JOINT AMPI /AFOMP/IOMP/ session** Golden Jubilee Plenary Event: Commemorating 50 Years of organized medical physics milestones. Session Moderators: Dr. M. Ravikumar, Dr. Arun Chougule Opening and Welcome **Dr. V. Subramani, Vice-President, AMPI** Scientific Sessions & Keynotes **I17**: Five Decades of AMPI - **Dr. Manoj Semwal, President AMPI, India** (20 minutes) **I18**: Six Decades of Medical Physics Education and Training in India: Retrospect, Progress, and Strategic Blueprint for Improvement - **Dr. S. D. Sharma, Mumbai** (20Mins) **I19**: Time to innovate together – Need for global medical physics consortia - **Dr. Robert Jeraj, USA** (25 mins): **I20**: The Future of Medical Physics Education and Training - **Dr. M. Mahesh, USA** (25 mins) **Panel Discussion 4**:30 Mins "Strengthening Medical Physics Research in India and Globally: Strategies, Priorities, Opportunities, and Collaboration" **Moderator: Dr. V. Subramani, Vice President, AMPI** Panelists: **Dr. K J Mariadas, Chairman CMPI** **Dr. Robert Jeraj, Science Committee, IOMP** **Prof. Hasin Anupama Azhari, President, AFOMP** **Dr. Biplab Sarkar, Kolkata**

17:00 – 19.00	GBM of AMPI followed by Gala Dinner

Day 3: Saturday, 12 December 2026

Time	Röntgen Hall
9.00 ; 9: 30	**Scientific Session 2: The Helical Edge: Next-Gen TomoTherapy** Session Moderator: TBD **I21:** Beyond the Beam: Unlocking the potential of Helical Tomotherapy - **Dr. N V N Madhusudhana Sresty, Hyderabad** (15 Mins)
9:30 - 10:30	**Debate:** The PSQA Showdown: Is Irradiating Plastic Obsolete? A debate on AI-Driven virtual QA vs. physical phantoms in modern radiotherapy. Moderator: **Dr. Sudesh Deshpande, Mumbai** Panelists: Dr. Ganesh K M, Bengaluru Dr. Dinesh Kumar M, USA Dr. RituRaj Upretti, Mumbai Dr. Saju Bhasi, Trivandrum
10:30 - 11:30	AMPI Best Oral Paper Session: Session Moderators: TBD **O6**: AMPICON26_ABS_N8843: Development of a Statistics-driven Trigger for Adaptive Replanning Evaluation Using Velocity-Derived Anatomical Changes in Head-and-Neck Radiotherapy: **Mr. Supratik Sen, Guwahati** **O7**: AMPICON26_ABS_S4057: AI-LINAC Guardian: Physics-Informed Digital-Twin Testbed for Early Fault Surveillance and Dosimetric Risk Prediction in Medical Linear Accelerators" A Simulation Study, **Dr. Kalyan Mondal, Birbhum**

	O8: AMPICON26_ABS_I8230: Tissue-Specific Radiosensitivity Matters: Voxel-Wise Variable-RBE Recalculation Uncovers Underestimated Organ-at-Risk Dose in Proton Therapy for Nasopharyngeal Carcinoma, **Dr. Gaganpreet Singh, Chennai** **O9**: AMPICON26_ABS_I7627: Beyond Pass Fail Robustness Evaluation: Process Capability Analysis for Proton Therapy Treatment Plans, **Dr. Vysakh Raveendran, Mumbai** **O10**: AMPICON26_ABS_I8391: Feasibility of Dosiomics-Based Machine Learning Approach for Gamma Passing Rate Prediction in VMAT Plans, **Mr. Suvankar Das, Dimapur** **O11**: AMPICON26_ABS_U6374, Comprehensive Evaluation of Radiotherapy VMAT Plan Complexity Metrics in Pituitary Adenoma Using an In-House Multimetric Analysis Application "Plan Analytics" **Mr. Dhineshshankar N, Ahmedabad**
11:30- 12:30	Industry Tech Showcase & Networking Session Moderators: TBD Industry Presentations: 6 presentations of 10 Mins each
12:30 - 14:00	Valedictory & Awards Ceremony • Official presentation of awards and valedictory