# AMPICON 2026

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

## Day 1: Thursday, 10 December 2026

| Time | Marie Curie Hall |
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| 09:00 - 09:30 | Opening Remarks: Setting the Wave of Patient-Centricity **Röntgen Hall** |
| 10:15 - 11:00 | AMPI Dr. Ramaiah Naidu Memorial Oration 2026 by Dr. Bhaskaran K Pillai, Kochi **Röntgen Hall** |
| 11:00 - 11:30 | Coffee & Networking Break |
| 11:30 – 12:30 | **Symposium 6: Advanced Brachytherapy**<br>Session Moderators: 1. Dr. Kailash Kumar Mittal, Uttar Pradesh, 2. Dr. Rajesh Kumar Singh, Patna<br>**I22**: Advancing Precision in HDR Prostate Brachytherapy: Dosimetric Optimization, Image Guidance, and Quality Assurance - **Dr. Elangovan Doraisamy, Pittsburgh** (15 Mins)<br>**I23**: Model-Based Dose Calculation Algorithms (MBDCAs) in Interstitial GYN Implants - **Dr. Raghavendra Hazare** (15Mins)<br>**I24**: Prostate SBRT: What to do and What not to do **- Dr. Vanneste Ben Belgium**(15Mins)<br>**O12**: AMPICON26_ABS_F8962: Effect of Dwell Time Gradient Restriction on Dwell Time Modulation and Plan Quality in HIPO-Optimized Interstitial Cervical Brachytherapy- **Prof. Lalit Mohan Aggarwal, Varanasi** |

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| 12.30 – 13.15 | **Symposium7: Advancing Proton Therapy Through AI & Quality Assurance**<br>Session Moderators: TBD<br>**I25**: Machine Learning and Quality Assurance in Proton Therapy: Collaborative Innovation- **Dr. Dayanand Sharma,Chennai** (20Mins)<br>**I26**: Proton Therapy Quality Assurance: Basics to Advancements, **Dr. Lalit Chaudhari, Mumbai**(15 Mins)<br>**O13**: AMPICON26_ABS_C7113: Measurement-Grounded Deep Learning for patient-specific quality assurance of intensity-modulated proton therapy, **Mr. Rangasamy Sivaraman, Chennai** |
| 13:15 - 14:00 | Lunch Break & Poster Viewing |
| 14:00 - 15:30 | **Symposium 8: Next-Gen Dosimetry & Special Techniques in Radiation Oncology**<br>Session moderators: TBD<br>**I27**: Cherenkov Radiation – Applications of Visible Light in Radiation Oncology - **Dr. Yoichi Watanabe, USA** (20 Mins)<br>**I28**: myOSLchip dosimetry system implementation in the clinic for in vivo dosimetry - **Dr. Amar Basavatia, USA** (15Mins)<br>**I29:** .Invited Talk 15 mins TBD<br>**I30**: Spatially Fractionated Radiation Therapy (SFRT) **– Dr. Rajeev Badkul, USA**(15 Mins)<br>**O14**: AMPICON26_ABS_J1718: Capturing Cherenkov light for image guidance and radiation field tracking in radiotherapy **Dr. Gopishankar Natanasabapathi, New Delhi**<br>**O15**: AMPICON26_ABS_V8722: Inter-Fraction Cardiac Motion and Anatomical Variability Predict Cardiac Dose During Deep Inspiration Breath-Hold Radiotherapy for Left-Sided Breast Cancer: A Serial CBCT-Based Study, **Mr. Srimanta Pramanik, Kolkata**<br>**O16**: AMPICON26_ABS_N8852: A Practical Fast and Accurate Tri-Planar Rigid Registration Workflow in HDR Brachytherapy: |

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| | Comparison with Conventional Registration Methods, **Mr. Devaraju Sampathirao, New Chandigarh**<br>**O17**: AMPICON26_ABS_D9268: Sensitivity of measurement-guided 3D dose reconstruction to valley-dose error in lattice radiotherapy. **Mr. Sonu Baby, Pune** |
| 15:30 - 16:30 | **Symposium 9: Radiation Protection & Regulations**<br>Session Moderators: TBD<br>**I31**: SHANTI Act, 2025: Redefining the regulatory architecture for Medical Radiation Facilities **- Dr. G Sahani, Mumbai** (15 Mins)<br>**I32**: Learning from Incident Reporting Systems: Developing a Culture of Transparency – **Dr. P.K.Dash Sharma, Mumbai**<br>**O18**: AMPICON26_ABS_P9389: Development of a machine learning model for the automatic QA of the diagnostic X-ray machine, **Ms. Kadambini Pal, Jatani**<br>**O19**: AMPICON26_ABS_J3428: Regulatory Strategies for AI-Enabled Radiotherapy Equipment, **Dr. Bibekananda Mishra, Mumbai** |
| 16:30 – 17:00 | **Symposium 10: "How I Did It": Translating New Technology into Clinical Practice**<br>Session Moderators: TBD<br>**I33**: From Installation to First Fraction: Commissioning Workflows and Online Adaptive Realities with Elekta Evo- **Sanjana Choudhary, Jaipur** (10 Mins)<br>**I34**: Mastering, Dynamic Delivery: QA Benchmarks, Trajectory Validation, and Clinical Implementation of RapidArc Dynamic- **Dr. Anto Vaz, Coimbatore** (10 Mins)<br>**I35**: Invited Speaker Sub-Millimeter Precision on the Ground: Integrating and Verifying Brainlab ExacTrac for High-Precision SRS/SBRT - **Dr. Bhaskar Prasad, Hyderabad** (10 Mins) |

## Day 2: Friday, 11 December 2026

| Time | Marie Curie Hall |
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| 9.00 - 10:15 | **Symposium 11: Multi-Modal Diagnostic Imaging**<br>Session Moderators: TBD<br>**I36:** Forensic Radiology – Role of Post-Mortem CT in Death Investigations - Dr. **Kalpana M Kanal, USA**(20 Mins)<br>**I37:** Photon Counting CT, the latest innovation in clinical CT - **Dr. Sameer Tipnis,** (15 Mins)<br>**I38**: MRI Safety and Regulatory Frameworks: Protecting Patients and Healthcare Workers - **Dr. Luca Gentile, (15 Mins)**<br>**O20**:AMPICON26_ABS_S7354: Big data challenges in the development of clinically relevant diagnostic models - **Dr. Nirmal Painuly, Lucknow**<br>**O21**:AMPICON26_ABS_M7620: Evaluation of Automatic Exposure Control Image Quality and Radiation Dose in Digital Breast Tomosynthesis Systems Using Standardized PMMA Phantoms: A Comparison of Two Mammography Systems - **Ms. Sneha Theres O J, New Delhi** |
| 10:15 - 11:00 | **AMPI Dr. P. S. Iyer Memorial Oration by Prof Ajay Kumar Shukla, Lucknow at Röntgen Hall**<br>Oration Address**:** Next Generation Nuclear Medicine-Challenges And Opportunities<br>Chairpersons: Dr. V Subramani New Delhi, Dr. C P Bhat, New Delhi |
| 11:00 - 11:30 | Coffee & Networking Break |
| 11.30 – 12.00 | **Scientific Session2: Nuclear Medicine and Theranostics**<br>Session Moderators:TBD |

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| | **I39:** Beyond the Background: The Pivotal Role of the Medical Physicist in Modern Nuclear Medicine and Theranostics - **Dr. Mary Joan, Ludhiana**(15 Mins)<br>**O22**:AMPICON26_ABS_C9575: Post-Irradiation Radiological Management of HAVAR Window Foils of Cyclotron Water Targets, **Mr. Dilshad, Ernakulam** |
| 12.00 – 13.00 | **Symposium 12: Strategic Leadership for Medical Physicists in Healthcare**<br>Session Moderators: 1. Dr Anurag Luharia, Wardha 2. Dr Arun Siva, Pune<br>**I40:** Transforming Expertise in to Impact: But How? – **Dr. Anuj K Tyagi, Meerut** (15 Mins)<br>**I41**: Support Medical Physics Development in South Asia and Beyond, **Prof. Dr. G. A. Zakaria, Germany** (15 Mins)<br>**O23:**AMPICON26_ABS_J5958: Retrospective Evaluation of PerFRACTION EPID-Based In Vivo Dosimetry for Identifying Adaptive Radiotherapy Indications in Head and Neck Cancer, **Ms. Alka Kataria, Varanasi**<br>**O24:**AMPICON26_ABS_R3343: Commissioning and Experimental Validation of a Clinical High-Dose-Rate Total Skin Electron Therapy Using OpenTOPAS Monte Carlo Toolkit, **Mr. Vikram Singh, Thiruvananthapuram**<br>**O25:**AMPICON26_ABS_J4510: Quantification of Beam Complexity in Volumetric Modulated Arc Therapy (VMAT) Treatment Plans **Ms. Sulfiya Mirvana A, Kozhikode** |
| 13:00 - 14:00 | Lunch Break & Poster Viewing |
| 14:00 - 15:00 | **Symposium 13: Quantum Computing in Radiotherapy**<br>Session Moderators: TBD<br>**I42:** From Qubits to Cure: Foundations of Quantum Computing and Their Emerging Role in Radiation Oncology- **Dr. K R Muralidhar, Hyderabad** (15 Mins)<br>**I43**: Quantum – Enhanced Digital Twins for Adaptive Radiotherapy **Dr. Deepak Thaper, NewDelhi** (15 Mins) |

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| | **O26:** AMPICON26_ABS_B3699: Human Factors Precision and Patient Safety in Radiation Oncology: Designing for Safer Systems - **Ms. Daxa Patel, USA**<br>**O27**: AMPICON26_ABS_Y5208: Investigation of LET-dependent dosimetric response of unlaminated radiochromic film - **Dr. Nitin Kakade, Mumbai**<br>**O28:** AMPICON26_ABS_G1768: Laboratory Synthesis and Dosimetric Characterization of CaSO4:Dy Thermoluminescent Phosphor with Optimization of Dysprosium Concentration and Teflon Binder Content - **Dr. Vijendra Kumar, Bhubaneswar** |
| 15:00 - 17:00 | **Symposium 14: Next-Gen Radiobiology & Precision Dosimetry**<br>Session Moderators: TBD<br>**I44:** Tumor Hypoxia Mapping: A Potential Strategy to enhance therapeutic success in cancer Management - **Dr. Abhijit Mandal, Varanasi** (15 Mins)<br>**I45:** TBD15 Mins<br>**O29:**AMPICON26_ABS_R9916: Validation of radiation dose estimation software in interventional radiology - **Philomina Akhilesh, Mumbai**,<br>**O30:** AMPICON26_ABS_M9678: Dosimetric data and clinical experience on TBI and TMLI using volumetric modulated arc therapy - Whole Body Anthropomorphic Phantom study - **Dr. Mahendra More, Mumbai**<br>**O31:** AMPICON26_ABS_K6258: To Assessment of HyperSight iterative CBCT for dose calculation in adaptive radiotherapy for pelvis and thorax patients compared to CT Simulator: A Phantom Study - **Mr. Sanjay Barman, Varanasi**<br>**O32:**AMPICON26_ABS_M9615: In-vivo and phantom dosimetric evaluation of scatter dose to testes during thigh-sarcoma irradiation using PFD and TLD detectors - **Dr. Arivarasan Ilamurugu, Hyderabad**<br>**O33:** AMPICON26_ABS_X6038: Monte Carlo Assessment of SNR-Dependent Liver Proton Density Fat Fraction Reliability at 0.55 T - **Ms. Urvi Jain, Gwalior** |

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| | **O34:**AMPICON26_ABS_M8275: Two Dimensional Dose Mapping of an Indigenous design injection Molded Intrauterine Tandem Applicator using TPS-Referenced EBT3 Gafchromic Film Calibration, **Mr. T.Godwin Paul Das, Vellore**<br>**O35:**AMPICON26_ABS_D5079: Evaluation of ROI Threshold Effects in VMAT Gamma Index Analysis Using In-House Python-Based Software: Comparison with EPID-Based Quality Assurance, **Mr. Bulbul Hossain, Bardwan** |
| 17:00 – 19.00 | GBM of AMPI |

## Day 3: Saturday, 12 December 2026

| Time | Marie Curie Hall |
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| 9:00 - 10:30 | **Symposium 15: Emerging Perspectives in Cancer Therapy and Radiation Dosimetry**<br>Session Moderators: TBD<br>**I46:** Boron Neutron Capture Therapy: A Novel Targeted Approach to Cancer Treatment – **Dr. Rajesh Kumar** (15Mins)<br>**I47:** Robotic system for organ fixation in gynecology - **Dr. Oleg Kozlov, Russia**(15 Mins)<br>**O36:** AMPICON26_ABS_W6698: One Chamber for All? Breaking the Myth of Parallel-Plate Chamber Necessity in Electron Reference Dosimetry, **Dr. Sathiyaraj P**<br>**O37:** AMPICON26_ABS_W9188: Emerging Nanotechnology-Based Approaches for Radiation Enhancement and Sensitization in Cancer Therapy: A Comprehensive Review, **Mrs. Asawari Pawaskar, Kolhapur**<br>**O38:** AMPICON26_ABS_Y1171: Impact of 192Ir Source Decay on Generalized Biologically Effective Dose (BEDg) for Tumors and Organs at Risk in HDR Cervical Brachytherapy, **Ms. Esaprobahini Dey, Kolkata** |

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| | **O39:** AMPICON26_ABS_L3864: Comparative dosimetric evaluation and plan quality analysis of forward planning and hybrid inverse planning optimization (HIPO) in interstitial brachytherapy for cervical cancer - **Ms. Navya M, Calicut**<br>**O40:** AMPICON26_ABS_F9442: Entropy-Based Characterization of Spatial Dose Complexity for Predicting Patient-Specific Quality Assurance Outcomes in VMAT Stereotactic Radiosurgery - **Dr. Sandeep Singh, Faridabad** |