

SUNDAY			
SMALL HALL	15:00-16:15		Training course – PART 1
EXHIBITION ROOM	16:15-16:30		Coffee break
SMALL HALL	16:30-18:00		Training course – PART 2
Collegium Maius UJ	19:00-21:00		Welcome Reception
MONDAY			
LARGE HALL	9:00-9:30		OPENING CEREMONY
LARGE HALL	9:30-10:00		(Hatanaka Award) Andreas Kreiner: “From the Atomic Nucleus to Cancer Cure: the Marvel of BNCT”
LARGE HALL	10:00-11:30		INVITED LECTURES
	10:00-10:30	IN-1	Akira Matsumura: “BNCT, current status and future direction”
	10:30-11:00	IN-2	Leena Kankaranta: “BNCT status in Finland – early and near future”
	11:00-11:30	IN-3	Rolf Barth: “BNCT, Past, Present and Future”
EXHIBITION ROOM	11:30-12:00		Coffee break
LARGE HALL	12:00-13:00		PLENARY LECTURES – keynote adress: General Aspects
	12:00	PL-1	Michał Gryziński: Status of BNCT in Poland: clinical, technological and research
	12:15	PL-2	Stuart Green: Accelerator neutron sources for BNCT. Where are we now and where might we want to be in 10 years?
	12:30	PL-3	Božena Szermer-Olearnik: Biofunctionalized boron carbide nanoparticles as targeted boron compounds in boron neutron capture therapy
	12:45	PL-4	Wei-lin Chen: Progress of accelerator-based boron neutron capture therapy development at Taiwan
EXHIBITION ROOM	13:00-14:00		Lunch and coffee break
LARGE HALL	14:00-15:30		Clinical Trials & Routine Practices – Oral presentations
	14:00	CL-1	Miki Yonemura: Impact of liver dose reduction in BNCT using LiF collimator: treatment planning aspect
	14:12	CL-2	Kei Nakai: BNCT Phase I Clinical Trial for newly diagnosed Glioblastoma
	14:24	CL-3	Teruhito Aihara: Preliminary Outcomes of Boron Neutron Capture Therapy for Head and Neck Cancers as a Treatment Covered by Public Health Insurance System in Japan: Real-world Experiences Over a Two-year Period
	14:36	CL-4	Woo Kim: Early Clinical Experience of Boron Neutron Capture Therapy: Compassionate Use Cases in South Korea
	14:48	CL-5	Shin-Ichi Miyatake: Interim results of accelerator-based boron neutron capture therapy, randomized controlled trial for recurrent and refractory high-grade meningiomas
	15:00	CL-6	Shinji Kawabata: Long-Term Results of Accelerator-Based Boron Neutron Capture Therapy (AB-BNCT) for Recurrent Malignant Gliomas: A Phase II Study Utilizing Cyclotron-Based Neutron Source (BNCT30) and Boronophenylalanine (SPM-011)
	15:12	CL-7	Junqiang Hong: Results of investigator-initiated trials on boron neutron capture therapy for brain malignant tumors and recurrent head and neck malignant tumors
EXHIBITION ROOM	15:30-16:00		Coffee break
LARGE HALL	16:00-17:30		General Aspects – Oral presentations
	16:00	GA-1	Ignacio Porras: Granada Project NeMeSis for an accelerator-based facility for BNCT: simulations of treatment of patients of brain tumors of bad prognosis.
	16:12	GA-2	Nicoletta Protti: Present status of NECTAR project to ascertain the feasibility, safety and effectiveness of low dose and low dose rate NCT in the treatment of Alzheimer’s disease
	16:24	GA-3	Satoshi Nakamura: Requirements for a suitable Japanese medical care provision system and its personnel in boron neutron capture therapy
	16:36	GA-4	Hiroshi Igaki: Regulatory aspect of the beam quality of the neutron irradiation systems for boron neutron capture therapy
	16:48	GA-5	Jun Gao: Current Status of BNCT for FDS Consortium
	17:00	GA-6	Valerio Vercesi: A new Boron Neutron Capture Therapy clinical centre in Italy: technological innovation and improved methods from the neutron beam to the patient dosimetry
	17:12	GA-7	Liisa Porra: Current status of Helsinki University Hospital BNCT facility

TUESDAY

LARGE HALL	8:30-10:00		Invited lectures
	08:30	IN-4	Andrea Monti Hughes “BNCT for clinical veterinary patients: worldwide results and potential improvements from experimental in vivo studies”
	09:00	IN-5	Mitsunori Kiriata “High purity boron compounds – trends in development novel agents”
	09:30	IN-6	Wolfgang Sauerwein “Why do we need BNCT in Radiation Oncology?”
EXHIBITION ROOM	10:00-10:30		Coffee break
LARGE HALL	10:30-11:30		Plenary lectures – keynote adress: The way to optimize BNCT in H&N cancers – new schedules, new carriers, new treatment plans based on models
	10:30	PL-5	Hanna Koivunoro: Tumor response to BNCT and survival outcomes with two boronophenylalanine (BPA) infusion schedules in patients with re-current squamous cell head and neck carcinoma
	10:45	PL-6	Patricia Álvarez-Rodríguez: A comparative study of the biological response to both BPA administration and neutron irradiation in Head and Neck carcinoma cells versus glioblastoma cells
	11:00	PL-7	Verónica A. Trivillin: Cobaltabis(dicarbollide) [COSAN]-as a boron carrier for BNCT studies in the hamster cheek pouch oral cancer model
	11:15	PL-8	Kazuyo Igawa: BNCT for Three-Dimensional In Vitro Oral Cancer Model
LARGE HALL	11:30-12:30		Discussion panel: Thrusting BNCT into bouquet of maturizing cancer therapies
EXHIBITION ROOM	12:30-13:30		Lunch and coffee break
EXHIBITION ROOM	13:30-15:00		Poster session (Biology + Chemistry of NCT carriers + General aspects + Clinical Trials & Routine Practices)
MEDIUM HALL PART A	15:00-16:00		Parallel session – Chemistry of NCT carriers
	15:00	PA-C1	Hiroyuki Nakamura: Gadolinium-Boron Conjugated Albumin: Pioneering MRI-Guided Neutron Capture Therapy
	15:12	PA-C2	Kakeru Konarita: Poly(vinyl alcohol) potentiating the inert enantiomer of L-4-boronophenylalanine.
	15:24	PA-C3	Detlef Gabel: Which boron cluster is best for BNCT?
	15:36	PA-C4	Dawid Kozień: Various methods of synthesis and determination of the potential for use of boron carbide in BNCT therapy
MEDIUM HALL PART B	15:00-16:00		Parallel session – Medical Physics
	15:00	PA-M1	Warren Kilby: Pharmacokinetic modelling to extrapolate from mouse to human biodistribution data for new tissues and compounds
	15:12	PA-M2	Mai Nojiri: Experimental verification of dose calculation algorithm with a combination of Monte Carlo method and Removal-Diffusion equation for BNCT using a head and neck water phantom
	15:24	PA-M3	Sara Gonzalez: Does including the dependence of the biological effect on the energy of charged particles in photon equivalent dose models significantly affect dosimetry in BNCT?
	15:36	PA-M4	Mailen Dattoli Viegas: Incidence of the somnolence syndrome after brain tumor treatment with BNCT using a photon isoeffective brain dose model
SMALL HALL	15:00-16:00		Parallel session – Engineering and physics
	15:00	PA-E1	Ricardo Luis Ramos: Radiation protection calculations in the design of an AB-BNCT facility: neutron activation and dose-rate after the accelerator shutdown.
	15:12	PA-E2	Agustina Mariana Portu: Machine learning based image classification and segmentation in neutron autoradiography
	15:24	PA-E3	Aigerim Nessipbay: MODELLING OF DIFFERENT CONFIGURATIONS OF BEAM FORMING ASSEMBLY FOR WWR-K REACTOR BY MONTE CARLO METHOD
	15:36	PA-E4	Masahiro Okamura: Study of directional pulsed neutron flux generation for BNCT using a high intensity lithium beam
	16:00-16:30		Coffee break
MEDIUM HALL PART A	16:30-17:30		Parallel session – Biology
	16:30	PA-B1	Qi Sun: The Radiobiological Mechanisms of Anti-Tumor Immunity Induced by Boron Neutron Capture Therapy
	16:42	PA-B2	Jiaomei Bai: Sensitive sites of subcellular organelles of U251 glioma cells in boron neutron capture therapy using L-4-Boronophenylalanine
	16:54	PA-B3	Anna Wróblewska: Macrophages as potential carriers of boron carbide nanoparticles in boron neutron capture therapy
	17:06	PA-B4	Andrea Monti Hughes: New boronophenylalanine (BPA) derivatives for the treatment of head and neck cancer: biodistribution, microdistribution and BNCT studies in the hamster cheek pouch oral cancer model
MEDIUM HALL PART B	16:30-17:30		Parallel session – Medical Physics
	16:30	PA-M5	Anna Rintala: Measured whole-body dose in accelerator-based BNCT treatment
	16:42	PA-M6	Natalia Knake: 478 keV gamma photons measurement in determining of therapeutic effects in BNCT
	16:54	PA-M7	Edyta Michaś-Majewska: Preliminary studies to develop a dosimetric verification of the therapeutic plan for Boron Neutron Capture Therapy using a polymer gel dosimeter
	17:06	PA-M8	Pablo Torres-Sánchez: The novel i-TED Compton Camera for real-time boron imaging and determination during treatments in Boron Neutron Capture Therapy
SMALL HALL	16:30-17:30		Parallel session – Chemistry of NCT carriers
	16:30	PA-C5	Chunhong Wang: Boron encapsulated in a liposome or a lipid nanoparticle can be used for combinational neutron capture therapy
	16:42	PA-C6	Zhibo Liu: An [18F]trifluoroborate-derived BPA ([18F]BBPA) for preclinical boron neutron capture therapy
	16:54	PA-C7	Yinghuai Zhu: Artificial Intelligence Assessments of the Small Molecular Boron Agents for Boron Neutron Capture Therapy
	17:06	PA-C8	Daniela Imperio: Synthesis and preliminary evaluation of boronated glucosamine derivatives as boron carriers for BNCT
	17:30		Kraków visit
	20:00		Social event

WEDNESDAY			
LARGE HALL	08:00-10:00		Invited lectures
	08:00	IN-7	Stuart Green: "Considerations for a Code of Practice for Dosimetry of BNCT Beams"
	08:30	IN-8	Saverio Altieri: "The AB-BNCT facility at the National Hadron Therapy Center (CNAO)"
	09:00	IN-9	Zizhu Zhang: "A brief overview of the recent development of IHNI and BNCT projects in mainland of China."
	09:30	IN-10	Shinji Kawabata: "Update on the BNCT project at Osaka Medical and Pharmaceutical University"
LARGE HALL	10:00-11:30		Plenary lectures – keynote adress: Breaking glioblastoma resistance to therapy with future BNCT
	10:00	PL-9	Gi-taek Yee: Clinical trial of A-BNCT for patients with recurrent glioblastoma
	10:15	PL-10	Natsuko Kondo: Profile of miRNAs in small extracellular vesicles released from glioblastoma cells treated by Boron Neutron Capture Therapy
	10:30	PL-11	Clara Viñas Teixidor: Breaking Boundaries in Nanomedicine: Unleashing the Power of Small Amphiphilic Nanomolecules as Carrier-Free Innovators for Multimodal Synergies
	10:45	PL-12	María Pedrosa-Rivera: Radiobiological concepts and their application in a recently developed Treatment Planning System in BNCT: the application on a glioblastoma in NEMESIS facility
	11:00	PL-13	Robert Hill: TAE Life Sciences
EXHIBITION ROOM	11:30-12:00		Coffee break
LARGE HALL	12:00-13:00		Discussion panel: Boron carriers
EXHIBITION ROOM	13:00-14:00		Lunch and coffee break
MEDIUM HALL PART A	14:00-15:30		Parallel session – Chemistry of NCT carriers
	14:00	PA-9	Annamaria Deagostino: Ureidosulfamido ortho-Carboranes as the key to combine BNCT with Carbonic Anhydrase Inhibition for Mesothelioma Treatment
	14:12	PA-C10	Maria Paola Demichelis: Synthesis and characterization of B4C-based multifunctional nanoparticles for BNCT Applications
	14:24	PA-C-11	Susana Isabel Nievas: Boron measurements by argon plasma inductively coupled to an optical emission spectrometer (ICP-OES) in Boron Neutron Capture Therapy (BNCT) in Argentina.
	14:36	PA-C12	Mario Gadan: Neutron autoradiography and UV-C sensitization reveals intracellular boron microdistribution in HER2+ breast cancer cells after liposomal boron delivery
	14:48	PA-C13	Daiki Tokura: AI-based optimization of physicochemical properties of polymer-drug conjugates for BNCT
MEDIUM HALL PART B	14:00-15:30		Parallel session – Medical Physics
	14:00	PA-M9	Roberto Bedogni: Benchmarking the NCT-WES neutron spectrometer with monoenergetic neutrons and radionuclide neutron sources
	14:12	PA-M10	Marco Antonio Martínez Cañadas: First experimental test of neutron production from $^7\text{Li}(p,n)$ at 2.1 MeV and the MgF2 moderating capabilities for the BSA design of the NeMeSis project for BNCT
	14:24	PA-M12	Jorge Lerendegui-Marco: Real-Time Boron Concentration Measurement in BNCT Using Compton Imaging
	14:36	PA-M13	Liang Zhao: Development of a new neutron dosimeter for measurement of ambient dose H^* in BNCT irradiation fields
	14:48	PA-M14	Monika Szczepanek: Biological effects of neutron radiation on human melanoma and melanocytes loaded with BPA
SMALL HALL	14:00-15:30		Parallel session – Engineering and physics
	14:00	PA-E5	Maria Sol Espain: Towards online detection of boron neutron capture events in biological samples using CMOS image sensors
	14:12	PA-E6	Setareh Fatemi: Study of the performances of a nnUnet Deep Learning model to automatically segment CT images of Glioblastoma cases to enhance BNCT TPS.
	14:24	PA-E7	Nicoletta Protti: Measuring ^{10}B Superficial Density with Timepix Quad Detectors
	14:36	PA-E8	Yuri Morizane: Examination of neutron beam properties to reach deep-seated cancer on BNCT
	14:48	PA-E9	Nicoletta Protti: Fluorescent Nuclear Track Detectors (FNTD) application for Boron microdistribution reconstruction in biological samples
	15:00	PA-E10	Takeshi Ikeda: Development of fluoride neutron moderators for accelerator-type BNCT
MEDIUM HALL PART A	15:30-17:00		Parallel session – Medical Physics
	15:30	PA-M15	Yi-chiao Teng: Application of segmentation of heterogeneous boron distribution intraROI
	15:42	PA-M16	Yoshinori Sakurai: Development of real-time boron-concentration estimation method using the improved gamma-ray telescope system for boron neutron capture therapy
	15:54	PA-M17	Shunsuke Suzuki: Development and validation of γ -ray dose measurement methods combining ^6LiF sintered capsule and $\text{Mg}_2\text{SiO}_4:\text{Tb}$ (TLD-MSO-S) at accelerator-based BNCT system
	16:06	PA-M18	Yuriy Zorenko: Composite detectors as an beneficial tool for dose measurements in BNCT
	16:18	PA-M19	Lauri Wendland: Neutron activation in interrupted neutron beams
	16:30	PA-M20	Yi-lian Wang: Treatment planning of boron neutron capture therapy for superficial head-and-neck cancer
MEDIUM HALL PART B	15:30-17:00		Parallel session – Engineering and physics
	15:30	PA-E11	Naoyuki Kitamura: Development of LiF based ceramics for shielding neutron beam in BNCT
	15:42	PA-E12	Andres J. Kreiner: Comparison of the different Accelerator Based-BNCT facilities worldwide and an update of the Buenos Aires project
	15:54	PA-E13	Chad Lee: Neutron Beam System for Accelerator BNCT in China: Status and Performance
	16:06	PA-E14	Sergey Taskaev: Progress in the development of dosimetry tools for boron neutron capture therapy
	16:18	PA-E15	Chang-min Lee: A GPU-accelerated Monte Carlo code for Hadron Treatment Planning System
EXHIBITION ROOM	17:00-17:15		Coffee break
MEDIUM HALL PART A	17:15-18:30		Parallel session – Biology
	17:15	PA-B5	Ying Tong: The role of GM-CSF in the early response to BNCT
	17:27	PA-B6	Maria Dagrosa: In vitro studies of radiosensitivity to the Boron Neutron Capture Therapy (BNCT) in the undifferentiated thyroid cancer (UTC)
	17:39	PA-B7	Kohei Tsujino: Exploring boron neutron capture therapy as a promising treatment for spinal cord gliomas: in vivo efficacy in rat models
MEDIUM HALL PART B	17:15-18:30		Parallel session – Medical Physics
	17:15	PA-M21	Mikhail Gladkikh: Investigation of the possibility of using the neutron flux of the R7-M accelerator for the purposes of BNCT
	17:27	PA-M22	Silva Bortolussi: First comparison and combination of BNCT and CIRT dosimetry in a head and neck tumor using the photon isoeffective dose model.
	17:39	PA-M23	Hiroaki Kumada: Characteristic measurement for the neutron beam of iBNCT001, a linac-based BNCT device from Tsukuba
	17:51	PA-M24	Ian Postuma: An innovative toolkit to simulate neutron capture therapy irradiation and dosimetry.
	18:03	PA-M25	Laura Bagnale: Design and optimization of a Beam Shaping Assembly for the BNCT facility based on the RFQ and Be target of the ANTHEM project in Italy
	18:15	PA-M26	Yung-fa Lu: Treatment planning of boron neutron capture therapy for hard-to-treat recurrent breast cancer
SMALL HALL	17:15-18:30		Parallel session – Engineering and physics
	17:15	PA-E16	Holger Hoeltermann: Commercially available Linacs for neutron production
	17:27	PA-E17	Xingyan Liu: Performance evaluation of the neutron monitoring system at Xiamen Humanity Hospital-Neuboron BNCT Center
	17:39	PA-E18	Rong Wang: Development of the BNCT treatment planning functions based on NECP-MCX
	17:51	PA-E19	Jakkrit Prateepkaew: Re-evaluation of Neutron Spectrum in Heavy Water Neutron Irradiation Facility of Kyoto University Research Reactor using Simple Multilayer Spectrometer
	18:03	PA-E20	Heyu Peng: Acceleration of NCEP-MCX as a neutron dose calculation engine for NCT
	18:15	PA-E21	Guillermo Marzik: Artificial Intelligence acceleration of BNCT dose calculations
LARGE HALL	18:30-20:30		General Assembly

THURSDAY

LARGE HALL	8:30-10:30		Invited lectures
	08:30	IN-11	Yuan-Hao Liu: “Design, Development, and Clinical Trials at Xiamen Humanity Hospital BNCT Center: A Comprehensive Overview”
	09:00	IN-12	Hiro Nakamura: “Innovation of Boron Delivery: Albumin-Based Molecularly Targeted BNCT”
	09:30	IN-13	Valeria Pascali “NCT in an Alzheimer’s disease scenario: from dosimetric evaluations on cell cultures and small animals to the design of a low-energy neutron beam for the human brain”
	10:00	IN-14	Kazuyo Igawa “IAEA collaboration center for BNCT”
LARGE HALL	10:30-11:30		Plenary lectures – keynote address: care for side effects in BNCT
	10:30	PL-14	Tanja Mälkiä: A retrospective study of factors causing grade 3 oral mucositis for locally recurrent inoperable head and neck patients treated with BNCT research reactor in Finland
	10:45	PL-15	Jessica Riback: Development of a comprehensive skin model for studying the dose-effect relationship using BNCT
	11:00	PL-16	Yoshiki Fujikawa: BNCT may preserve neurological function and be an effective approach for metastatic spinal tumor
	11:15	PL-17	Andrea Monti Hughes: Boron Neutron Capture Therapy effect on oral microbiota and its potential modulation with the prebiotic oligo-fuoidan: in vivo studies in an oral cancer experimental model
EXHIBITION ROOM	11:30-12:00		Coffee break
EXHIBITION ROOM	12:00-13:30		Poster session (Engineering and Physics + Medical Physics)
EXHIBITION ROOM	13:30-14:30		Lunch and coffee break
MEDIUM HALL PART A	14:30-16:00		Parallel session – Medical Physics
	14:30	PA-M27	Maciej Maciak: On the role of standardisation of n-γ beam phase space data for Monte Carlo based tools
	14:42	PA-M28	Barbara Marcaccio: Experimental and computational approaches to develop a Photon Isoeffective Microdosimetric Dose Model for glioblastoma multiforme in BNCT
	14:54	PA-M29	Hui-yu Tsai: A Spherical Neutron Source Term for Precision Treatment Plan Calculations in Boron Neutron Capture Therapy
	15:06	PA-M30	Wan-bing Zhong: Development of a BNCT dose calculation program COMPASS-GPU based on GPU acceleration and Monte Carlo Method
	15:18	PA-M31	Fatimah Zachariah Ali: A platform for quantitative mapping of boron uptake and microdistribution in a preclinical cancer model to inform boron neutron capture therapy (BNCT) drug studies
	15:30	PA-M32	Changran Geng: DNA damage and repair modeling in Boron Neutron Capture Therapy based on Monte Carlo track structure simulations
	15:42	PA-M33	Anna Selva: Microdosimetry: a technique for beam quality monitoring in BNCT
MEDIUM HALL PART B	14:30-16:00		Parallel session – Engineering and physics
	14:30	PA-E22	Koji Tsumaki: Feasibility study of extremely small BNCT system: Storage ring based compact BNCT System using the 3H(d, n)4He reaction
	14:42	PA-E23	Daniele Pistone: A GATE Monte Carlo study on ICRP110 phantoms for BNCT dosimetry evaluation
	14:54	PA-E24	Diyun Shu: Preliminary Exploration of 2D Reaction Rate Measurement Method based on Indirect Neutron Radiography in BNCT
	15:06	PA-E25	Lunan Zhou: Calculation of Accelerator Based Neutron Sources and Beam Shaping Assembly with Genetic Algorithm
	15:18	PA-E26	Keizheng Yang: Design and Performance Analysis of Electron Accelerator based Full-Spectrum Neutron Source
	17:30-22:00		Congress Banquet
FRIDAY			
LARGE HALL	08:30-10:00		Plenary lectures – keynote address: Emerging BNCT indications
	08:30	PL-18	Mihiro Takemori: The feasibility study of BNCT for thoracic tumors: treatment planning aspect
	08:45	PL-19	Simonetta Geninatti Crich: Optimized sulfamido-carborane-conjugated Gd complex as a theranostic probe for MRI-guided BNCT in mesothelioma therapy
	09:00	PL-20	Sebastiano Micocci: Exploiting Boron Neutron Capture Therapy (BNCT) against amyloid aggregates
	09:15	PL-21	Janusz Winięcki: Treatment Planning System for BNCT – presentation of the current achievements of the TPS Task Group of the BNCT Polish Consortium
	09:30	PL-22	Wiktoria Krakowiak: Gold nanoparticles as radiosensitizers – the influence on breast cancer cells in Boron-Neutron Capture Therapy
EXHIBITION ROOM	10:00-10:15		Coffee break
LARGE HALL	10:15-12:00		Closing Ceremony
EXHIBITION ROOM	12:00-12:45		Lunch and coffee break