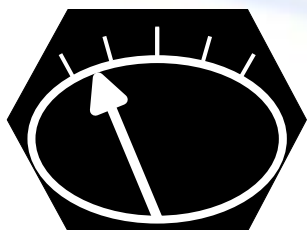


DAYS OF THE SCIENCE of the Technical University of Sofia, SOZOPOL 2026
ДНИ НА НАУКАТА на Технически университет – София, СОЗОПОЛ 2026
ДНИ НАУКИ Технического университета – София, СОЗОПОЛЬ 2026

36th INTERNATIONAL SCIENTIFIC SYMPOSIUM
XXXVI МЕЖДУНАРОДЕН НАУЧЕН СИМПОЗИУМ
XXXVI МЕЖДУНАРОДНЫЙ НАУЧНЫЙ СИМПОЗИУМ



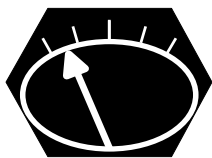
**METROLOGY AND METROLOGY
ASSURANCE 2026**

**МЕТРОЛОГИЯ И МЕТРОЛОГИЧНО
ОСИГУРЯВАНЕ 2026**

**МЕТРОЛОГИЯ И МЕТРОЛОГИЧЕСКОЕ
ОБЕСПЕЧЕНИЕ 2026**

PROGRAMME
ПРОГРАМА
ПРОГРАММА

September 7 – 11, 2026, Sozopol, Bulgaria
7 – 11 Септември 2026 г., Созопол, България
7 – 11 Сентября 2026 г., Созополь, Болгария



METROLOGY AND METROLOGY ASSURANCE 2026

36th International Scientific Symposium
September 7 -11, 2026, Sozopol, Bulgaria

ORGANISED BY



Technical University of Sofia

- ♦ *Department of Information and Measurement Technology*
- ♦ *Department of Precision Engineering and Measuring Instruments*



Institute of Electrical and Electronics Engineers, Bulgaria Section

WITH THE ATTENDANCE OF



Bulgarian Institute of Metrology



Union of Metrologists in Bulgaria



Federation of Scientific and Technical Unions in Bulgaria



Kozloduy Nuclear Power Plant

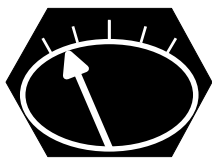
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МЕТРОЛОГИЯ И МЕТРОЛОГИЧНО ОСИГУРЯВАНЕ 2026

36^{ти} МЕЖДУНАРОДЕН НАУЧЕН СИМПОЗИУМ
7 -11 Септември, 2026, Созопол

ОРГАНИЗИРАН ОТ



Технически университет София

- ♦ Катедра “Информационно-измервателна техника”
- ♦ Катедра “Прецизна техника и уредостроене”



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Българска секция***

С УЧАСТИЕТО НА



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метрология***



Съюз на метролозите в България



***Федерация на научно-техническите
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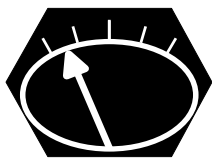


“АЕЦ Козлодуй” ЕАД

С ПОМОЩТА НА

ТУ-СОФИЯ – НАУЧНО-ИЗСЛЕДОВАТЕЛСКИ СЕКТОР

СОФТТРЕЙД УНИТЕХ КОНТРОЛ ЕООД НПЛ „КИМ”



МЕТРОЛОГИЯ И МЕТРОЛОГИЧЕСКОЕ ОБЕСПЕЧЕНИЕ 2026

36^{ый} МЕЖДУНАРОДНЫЙ НАУЧНЫЙ СИМПОЗИУМ
7 – 11 Сентября 2026 г., Созополь

СИМПОЗИУМ ОРГАНИЗУЕТСЯ



Техническим университетом София

- ♦ *Кафедрой Информационно-измерительной техники*
- ♦ *Кафедрой Прецизионной техники и приборостроения*



***Институтом инженеров по
электротехнике и электронике,
Болгарская секция***

С УЧАСТИЕМ



***Болгарского института
метрологии***



Союза метрологов Болгарии



***Федерация научно-технических
союзов Болгарии***



“АЭС Козлодуй” ОАО

ПРИ ПОДДЕРЖКЕ

ТУ-СОФИЯ - НАУЧНО-ИССЛЕДОВАТЕЛЬСКИЙ СЕКТОР

СОФТТРЕЙД

УНИТЕХ КОНТРОЛ ООО

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PROGRAMME / ПРОГРАМА / ПРОГРАММА

REGISTRATION / РЕГИСТРАЦИЯ	Hotel Lobby or On-line	7.09.2026	10:00 – 13:00 14:00 – 17:00
OPENING / ОТКРИВАНЕ / ОТКРЫТИЕ	Hall/Зала/Зал 1	8.09.2026	10:00 – 10:30
PAPERS AND SCIENCE NOTES ДОКЛАДИ И НАУЧНИ СЪОБЩЕНИЯ ДОКЛАДЫ И НАУЧНЫЕ СООБЩЕНИЯ	Hall/Зала/Зал 1	8.09.2026	10:30 – 11:45 13:00 – 14:15 14:30 – 15:30 15:45 – 16:45 17:00 – 18:00
		9.09.2026	09:00 – 10:15 10:30 – 12:00 12:30 – 14:15 14:30 – 15:45 16:00 – 17:00 17:15 – 18:45
		10.09.2026	09:00 – 10:00 10:15 – 11:30
ROUND TABLE “DIGITAL CERTIFICATES” КРЪГЛА МАСА “ЦИФРОВИ СЕРТИФИКАТИ” КРУГЛЫЙ СТОЛ “ЦИФРОВЫЕ СЕРТИФИКАТЫ”	Hall/Зала/Зал 2	9.09.2026	10:30 – 12:30
WELCOME / ДОБРЕ ДОШЛИ / ДОБРО ПОЖАЛОВАТЬ		8.09.2026	19:00
COCKTAIL / КОКТЕЙЛ / КОКТЕЙЛЬ		9.09.2026	19:30
CLOSING / ЗАКРИВАНЕ / ЗАКРЫТИЕ	Hall/Зала/Зал 1	10.09.2026	11:45 – 12:30
DEPARTURE / ОТПЪТУВАНЕ / ОТЪЕЗД		11.09.2026	

7 September / Септември / Сентября 2026 (Monday / Понеделник / Понедельник)	
10:00 – 13:00	Registration / Регистрация
13:00 – 14:00	Free time / Свободно време / Свободное время
14:00 – 17:00	Registration / Регистрация

8 September / Септември / Сентября 2026 (Tuesday / Вторник / Вторник)	
10:00 – 10:30	Opening / Откриване / Открытие
10:30 – 11:45	Plenary Session / Пленарно заседание / Пленарное заседание
11:45 – 12:00	Group photo / Колективна снимка / Групповое фото Coffee break / Кафе пауза / Кофе перерыв
12:00 – 13:00	Free time / Свободно време / Свободное время
13:00 – 14:15	Section / Секция I General Aspects of Metrology. Measurement Methods. Unity and Accuracy of Measurements Общи аспекти на метрологията. Методи на измерване. Единство и точност на измерванията Общие аспекты метрологии. Методы измерения. Единство и точность измерений
14:15 – 14:30	Coffee break / Кафе пауза / Кофе перерыв
14:30 – 15:30	Section / Секция I: CONTINUES / ПРОДЪЛЖЕНИЕ / ПРОДОЛЖЕНИЕ
15:30 – 15:45	Coffee break / Кафе пауза / Кофе перерыв
15:45 – 16:45	Section / Секция III Measurement and Information Systems and Technologies Измервания и информационни системи и технологии Измерительные и информационные системы и технологии
16:45 – 17:00	Coffee break / Кафе пауза / Кофе перерыв
17:00 – 18:00	Section / Секция III: CONTINUES / ПРОДЪЛЖЕНИЕ / ПРОДОЛЖЕНИЕ
19:00	Welcome / Добре дошли / Добро пожаловать

9 September / Септември / Сентября 2026 (Wednesday / Сряда / Среда)	
10:30 – 12:30	Round Table / Кръгла маса / Круглый стол Digital Certificates Цифрови Сертификати Цифровые Сертификаты in Parallel in Hall 2 / паралелно в зала 2 / параллельно в зале 2

9 September / Септември / Септември 2026 (Wednesday / Сряда / Среда)	
09:00 – 10:15	Section / Секция IV Measurements in the Industry Измервания в индустрията Измерения в промышленности
10:15 – 10:30	Coffee break / Кафе пауза / Кофе перерыв
10:30 – 12:00	Section / Секция II Sensors, Transducers and Devices for Measurement of Physical Quantities Сензори, преобразуватели и уреди за измерване на физични величини Сенсоры, преобразователи и приборы для измерения физических величин
12:00 – 12:30	Free time / Свободно време / Свободное время
12:30 – 14:15	Section / Секция IX Ionizing Radiation Measurements Измерване на Йонизиращи Лъчения Измерение Ионизирующих Излучений
14:15 – 14:30	Coffee break / Кафе пауза / Кофе перерыв
14:30 – 15:45	Section / Секция VIII Metrology Practice Метрологична Практика Метрологическая Практика
15:45 – 16:00	Coffee break / Кафе пауза / Кофе перерыв
16:00 – 17:00	Section / Секция VIII: CONTINUES / ПРОДЪЛЖЕНИЕ / ПРОДОЛЖЕНИЕ
17:00 – 17:15	Coffee break / Кафе пауза / Кофе перерыв
17:15 – 18:45	Section / Секция VII Measurements in the Ecology, Biotechnology, Medicine, and Sport Измерване в екологията, биотехнологиите, медицината и спорта Измерения в экологии, в биотехнологиях, в медицине и в спорте
19:30	Cocktail / Коктейл / Коктейль

10 September / Септември / Септември 2026 (Thursday / Четвъртък / Четверг)	
09:00 – 10:00	Section / Секция X Quality Management and Control, Standardization, Certification, Accreditation Управление и Контрол На Качеството, Стандартизация, Сертификация, Акредитация Управление и Контроль Качества, Стандартизация, Сертификация, Акредитация
10:00 – 10:15	Coffee break / Кафе пауза / Кофе перерыв
10:15 – 11:30	Section / Секция X: CONTINUES / ПРОДЪЛЖЕНИЕ / ПРОДОЛЖЕНИЕ
11:30 – 11:45	Coffee break / Кафе пауза / Кофе перерыв
11:45 – 12:30	Closing Session / Закриваща сесия / Заключительное заседание

11 September / Септември / Септември 2026 (Friday / Петък / Пятница)	
Departure / Отпътуване / Отъезд	

SCIENTIFIC PROGRAMME НАУЧНА ПРОГРАМА НАУЧНАЯ ПРОГРАММА

**8 September / Септември / Сентября 2026
(Tuesday / Вторник / Вторник)**

OPENING / ОТКРИВАНЕ / ОТКРЫТИЕ

10:00 – 10:30

*Chairman: Prof. D. Diakov, PhD
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N. Gurov, MEng*

PLENARY SESSION / ПЛЕНАРНА СЕСИЯ / ПЛЕНАРНОЕ ЗАСЕДАНИЕ

10:30 – 11:45

*Chairman: Prof. D. Diakov, PhD
Secretary: Assoc. Prof. G. Milushev, PhD
N. Gurov, MEng*

P.1. EC 32	Hristina Sokolova and Valentin Starev LEGAL METROLOGY IN SUPPORT OF GREEN EUROPE
P.2. EC 37	Stanimir Kalburov METROLOGY AND QUANTUM PHYSICS
P.3. EC 38	Roald Taymanov, Kseniia Sapozhnikova, Eddy Yujra Rivas A LOOK AT MANUFACTURING EQUIPMENT OF THE FUTURE

Section / Секция I

13:00 – 14:15

14:30 – 15:30

**GENERAL ASPECTS OF METROLOGY.
MEASUREMENT METHODS. UNITY AND ACCURACY
OF MEASUREMENTS**

**ОБЩИ АСПЕКТИ НА МЕТРОЛОГИЯТА. МЕТОДИ НА
ИЗМЕРВАНЕ. ЕДИНСТВО И ТОЧНОСТ НА
ИЗМЕРВАНИЯТА**

**ОБЩИЕ АСПЕКТЫ МЕТРОЛОГИИ. МЕТОДЫ
ИЗМЕРЕНИЯ. ЕДИНСТВО И ТОЧНОСТЬ ИЗМЕРЕНИЙ**

*Chairman: Prof. I. Zakharov, DSc
Secretary: Assist. Prof. I. Blagov, PhD
N. Gurov, MEng*

I.1. EC 3	Maryna Miroshnyk, Olha Zaichenko, Anatolii Miroshnyk, Nataliia Hapon NICOLSON-ROSS-WEIR METHOD UNCERTAINTY ANALYSIS
I.2. EC 7	Pedro Costa, Rafael Oliveira, Leonardo Pires INFLUENCE OF CHARACTERISTIC PARAMETERS OF NON-STATIC MEASUREMENT REGIMES ON THE ESTIMATION OF MEASUREMENT UNCERTAINTY
I.3. EC 20	Yevgeniy Shafronenko, Sergiy Sheiko, Volodymyr Kartashov, Alina Shafronenko ACOUSTIC SIGNAL MODELING METHODS FOR DRONE DETECTION
I.4. EC 31	Radoslav Marinov FROM GUM BUDGETS TO BAYESIAN POSTERIORES: A PER-COMPONENT ANALYTICAL FRAMEWORK FOR HIGH-VALUE RESISTANCE CALIBRATION
I.5. EC 39	Nikolay Alexandrov CLASSIFICATION OF THE PHYSICAL QUANTITIES AND THE PHYSICAL EQUATIONS IN THE NEW MATRIX REPRESENTATION OF THE INTERNATIONAL SYSTEM OF UNITS (SI)

I.6. EC 46	Kiril Banev, Olesia Botsiura, Igor Zakharov TAKING INTO ACCOUNT THE INSTABILITY OF STANDARDS FOR MEASUREMENT UNCERTAINTY AT CALIBRATION OF MEASURING INSTRUMENTS
I.7. EC 49	Igor Zakharov, Olesia Botsiura STUDY OF THE POSSIBILITY OF USING THE COUNTER-KURTOSIS METHOD FOR ESTIMATING THE EXPANDED UNCERTAINTY OF MEASUREMENTS
I.8. EC 64	Ted Spasov, George Milushev, Bozhidar Dzhudzhev ESTIMATING THE UNCERTAINTY OF THE APPARENT TEMPERATURE USING THE GUM METHOD BASED ON THE MEASUREMENT OF MICROCLIMATE PARAMETERS
I.9. EC 65	Ted Spasov, George Milushev, Bozhidar Dzhudzhev ESTIMATING THE UNCERTAINTY OF THE APPARENT TEMPERATURE USING THE MONTE CARLO METHOD BASED ON THE MEASUREMENT OF MICROCLIMATE PARAMETERS

Section / Секция III

15:45 – 16:45

17:00 – 18:00

MEASUREMENT AND INFORMATION SYSTEMS AND TECHNOLOGIES

ИЗМЕРВАТЕЛНИ И ИНФОРМАЦИОННИ СИСТЕМИ И ТЕХНОЛОГИИ

ИЗМЕРИТЕЛЬНЫЕ И ИНФОРМАЦИОННЫЕ СИСТЕМЫ И ТЕХНОЛОГИИ

Chairman: Z. Chavdarova, PhD

Secretary: Assoc. Prof. B. Dzhudzhev, PhD

Assist. Prof. A. Pandelova, PhD

III.1. EC 18	Tsvetomir Petkov NON-CONTEXTUAL LOGICAL MAPPING AS AN APPROACH FOR INTELLIGENT INTERPRETATION OF METROLOGICAL DATA AND TRANSFORMATION INTO STRUCTURED KNOWLEDGE
III.2. EC 22	Ihor Hryhorenko, Andrii Lashkov, Svitlana Hryhorenko, Krasimir Galabov, Ivaylo Blagov ANALYSIS OF MEASUREMENT UNCERTAINTY OF AN INDUSTRIAL INFORMATION AND MEASUREMENT SYSTEM
III.3. EC 24	Radoslav Miltchev, Slavi Marinov, Mihail Zagorski, Nikolay Nikolov CONCEPT FOR THE DEVELOPMENT OF AN INTELLIGENT SYSTEM FOR MONITORING AND MANAGING THE DELIVERY AND USE OF WATER SUPPLY SERVICES TO VARIOUS TYPES OF CONSUMERS
III.4. EC 25	Radoslav Miltchev, Vasil Pechovski, Mihail Zagorski, Dimitar Ginchev TECHNICAL AND TECHNOLOGICAL FRAMEWORK OF AN INTELLIGENT SYSTEM FOR AGGREGATING NEUROFEEDBACK AND BIOFEEDBACK DATA TO ASSESS RESPONSE AND LEARNING OUTCOMES
III.5. EC 28	Mykola Kundenko, Ivaylo Blagov, Vitalii Mardziavko, Andrii Rudenko, Kateryna Mardziavko RESEARCH OF THE GENERATOR-AMPLIFIER TRACT OF THE MICROWAVE MEASURING-INFORMATION SYSTEM FOR CONTROLLING ETHYLENE CONCENTRATION
III.6. EC 29	Mykola Kundenko, Ivaylo Blagov, Andrey Stavinskii, Krasimir Galabov, Vitalii Mardziavko, Andrii Rudenko METHOD FOR DETERMINING THERMAL LOAD OF WINDINGS OF ELECTROMAGNETIC SYSTEMS

III.7. EC 43	Valentin Mateev, Iliana Marinova, Denislav Karaasenov MAGNETIC AFM MEASUREMENTS BASED ON DISTANCE-FORCE CALIBRATION TECHNIQUE
III.8. EC 44	Martin Ralchev, Valentin Mateev, Iliana Marinova, Georgi Kotlarski, Stefan Valkov, Maria Ormanova 3D FDM PRINTING SPEED OPTIMIZATION BY THERMAL MODELING

**9 September / Септември / Сентября 2026
(Wednesday / Сряда / Среда)**

Section / Секция IV

09:00 – 10:15

**MEASUREMENTS IN THE INDUSTRY
ИЗМЕРВАНИЯ В ИНДУСТРИЯТА
ИЗМЕРЕНИЯ В ПРОМЫШЛЕННОСТИ**

*Chairman: Prof. D. Dichev, DSc
Secretary: Assist. Prof. D. Komarski, PhD
Assist. Prof. K. Galabov, PhD*

IV.1. EC 54	Dimitar Dichev, Dimitar Diakov, Ralitza Dicheva, Hristiana Nikolova, Iliya Zhelezarov ADAPTIVE MATHEMATICAL MODEL FOR LOCAL ESTIMATION OF MEASUREMENT UNCERTAINTY IN DYNAMIC CALIBRATION OF AHRS SYSTEMS
IV.2. EC 56	Ralitza Dicheva, Hristiana Nikolova, Dimitar Diakov, Dimitar Dichev, Iliya Zhelezarov, Oleksandr Kupriyanov MATHEMATICAL MODEL FOR ESTIMATING THE SYSTEMATIC COMPONENT OF DYNAMIC STANDARD UNCERTAINTY IN AHRS SYSTEMS
IV.3. EC 57	Dimitar Dichev, Dimitar Diakov, Ralitza Dicheva, Hristiana Nikolova, Iliya Zhelezarov, Oleksandr Kupriyanov MODEL FOR EVALUATING COMBINED AND EXPANDED UNCERTAINTY IN DYNAMIC CALIBRATION OF AHRS SYSTEMS
IV.4. EC 58	Dimitar Diakov, Tanyo Nikolov INFLUENCE OF THE ANGULAR RANGE ON THE MEASUREMENT ACCURACY OF CIRCULAR FEATURES USING A COORDINATE MEASURING MACHINE
IV.5. EC 60	Dimitar Diakov, Tsanko Karadzhov, Iliyan Gospodinov Gospodinov IMPROVING ACCURACY IN A MULTI-SENSOR TEMPERATURE MEASUREMENT SYSTEM

**Round Table
Кръгла маса
Круглый стол**

**DIGITAL CERTIFICATES
ЦИФРОВИ СЕРТИФИКАТИ
ЦИФРОВЫЕ СЕРТИФИКАТЫ**

Organised with UMB in Parallel in Hall 2
Организирана със СМБ паралелно в зала 2
Организован с СМБ параллельно в зале 2

10:30 – 12:30

*Chairman: Assoc. Prof. G. Milushev, PhD
Secretary: Tzvetomir Petkov, MEng*

RT.1.	Digital certificates as a part of metrology digitalization
RT.2.	Security Aspects of the Digital Certificates

Section / Секция II**10:30 – 12:00****SENSORS, TRANSDUCERS AND DEVICES FOR MEASUREMENT OF PHYSICAL QUANTITIES****СЕНЗОРИ, ПРЕОБРАЗОВАТЕЛИ И УРЕДИ ЗА ИЗМЕРВАНЕ НА ФИЗИЧНИ ВЕЛИЧИНИ****СЕНСОРЫ, ПРЕОБРАЗОВАТЕЛИ И ПРИБОРЫ ДЛЯ ИЗМЕРЕНИЯ ФИЗИЧЕСКИХ ВЕЛИЧИН***Chairman: Assoc. Prof. N. Stoyanov, PhD**Secretary: Assist. Prof. D. Komarski, PhD**Assist. Prof. I. Blagov, PhD*

II.1. EC 5	Nedyu Nedev, Stephan Kozhukharov, Stefan Ivanov, Zvezditzza Nenova, Georgi Avdeev, Toshko Nenov HUMIDITY SENSOR BASED ON A MULTILAYER SENSING ELEMENT
II.2. EC 36	Luboslav Hristov, Momchil Lazarov, Ivan Ivanov OPTIMISATION OF THE MEASUREMENT CHARACTERISTICS FOR PRESSURE SENSORS USING MATHEMATICAL MODELLING OF CORRECTION COEFFICIENTS
II.3. EC 47	Boyana Ivanova, Radoslav Deliyski, Bozhidar Dzhudzhev ANALYSIS OF THE INFLUENCE OF ENVIRONMENTAL FACTORS ON THE ULTRASONIC DISTANCE SENSOR HC-SR04
II.4. EC 51	Kristian Domuhchiev, Bozhidar Dzhudzhev, Nikolay Stoyanov, Antonia Pandelova DEVELOPMENT OF AN EXPERIMENTAL SETUP FOR RPM MEASUREMENT USING A COMBINED SENSOR SYSTEM
II.5. EC 52	Kristian Domuhchiev, Bozhidar Dzhudzhev, Nikolay Stoyanov, Antonia Pandelova COMPARATIVE ANALYSIS OF RPM MEASUREMENT USING A HALL SENSOR AND A PHOTOELECTRIC TRANSDUCER
II.6. EC 59	Dimitar Diakov, Borislav Georgiev REAL-TIME EMBEDDED KALMAN FILTERING WITH INNOVATION-BASED PARAMETER SELECTION FOR LOW-COST ENVIRONMENTAL SENSORS

Section / Секция XI**12:30 – 14:15****IONIZING RADIATION MEASUREMENTS****ИЗМЕРВАНЕ НА ЙОНИЗИРАЩИ ЛЪЧЕНИЯ****ИЗМЕРЕНИЕ ИОНИЗИРУЮЩИХ ИЗЛУЧЕНИЙ***Chairman: Assoc. Prof. K. Mitev, PhD**Secretary: Assoc. Prof. S. Georgiev, PhD**Assist. Prof. I. Blagov, PhD*

XI.1. EC 23	Temenuzhka Stoyanova, Neli Ivanova, Daniel Hristov, Krasimir Mitev SYSTEMATIC LONG-TERM STUDY OF THE CERTIFIED CHARACTERISTICS OF WORKING MEASUREMENTS STANDARDS FOR METROLOGICAL ASSURANCE OF ALPHA-/BETA- CONTAMINATION MONITORS USED AT KOZLODUY NPP
XI.2 EC 27	Vladislav Todorov, Philippe Cassette, Anton Mateev, Krasimir Mitev FE-55 ACTIVITY STANDARDIZATION BY TDCR MEASUREMENTS AT SOFIA UNIVERSITY
XI.3. EC 30	Bozhidar Krastev, Strahil Georgiev, Vladislav Todorov, Ivelina Dimitrova, Krasimir Mitev CALIBRATION OF ARANET PRO ELECTRONIC RADON DETECTORS

XI.4. EC 33	Viktor Mladenov CHANGES IN THE BACKGROUND CHARACTERISTICS OF AN HPGE DETECTOR UNDER COOLING WITH LIQUID NITROGEN CONTAINING RADON-222
XI.5. EC 40	Temenuzhka Stoyanova, Daniel Hristov, Neli Ivanova MODERNIZATION OF EFFLUENT ACTIVITY MEASUREMENT SYSTEMS (EAMS) AT KOZLODUY NPP PLC
XI.6. EC 41	Krasimir Mitev, Vladislav Todorov, Anton Mateev, Temenuzhka Stoyanova, Borislav Dobrinov, Daniel Hristov, Neli Ivanova METROLOGICAL STUDY OF П9 TYPE CONTROL SOURCES USED AT KOZLODUY NPP
XI.7. EC 45	Strahil Georgiev, Vladislav Todorov, Bozhidar Krastev, Ivelina Dimitrova, Krasimir Mitev RECENT EXPERIENCE WITH SHORT-DURATION EXPOSURES OF CONSUMER-GRADE ELECTRONIC RADON MONITORS

Section / Секция VIII

14:30 – 15:45

16:00 – 17:00

METROLOGY PRACTICE

МЕТРОЛОГИЧНА ПРАКТИКА

МЕТРОЛОГИЧЕСКАЯ ПРАКТИКА

Chairman: K. Banev, MEng

Secretary: B. Borisov, MEng

Assist. Prof. K. Galabov, PhD

VIII.1. EC 8	Martin Dimitrov, George Milushev MATHEMATICAL MODELING AND VALIDATION OF A QUALITY MONITORING SYSTEM FOR ULTRASONIC WIRE WELDING
VIII.2. EC 34	Snezhana Spasova, Krasimir Bosilkov CALIBRATION PROCEDURE FOR NON-CONTACT THERMOMETERS
VIII.3. EC 35	Biser Borisov, Filip Filipov LABORATORY CONTROL WITH CENTRALIZED AND AUTOMATED MONITORING OF THE PARAMETERS OF THE ENVIRONMENT
VIII.4. EC 42	Gergana Blaskova NEW CAPABILITIES FOR COLOUR MEASUREMENTS AT THE BULGARIAN INSTITUTE OF METROLOGY
VIII.5. EC 48	Zlatka Chavdarova, Desislava Koleva, Veselin Ivanov NEW TECHNICAL DECISIONS FOR MEASURING THE SPEED OF ROAD VEHICLES
VIII.6. EC 53	Avetis Melkonyan, Velizar Vassilev DESIGN AND ANALYSIS OF A COMPACT 6-DOF HEXAPOD USING FOLDED-LEAF FLEXURE JOINTS
VIII.7. EC 55	Dimitar Diakov, Ralitza Dicheva, Hristiana Nikolova AUTOMATIC MODEL FOR DETERMINING THE RANDOM COMPONENT OF DYNAMIC STANDARD UNCERTAINTY
VIII.8. EC 61	Dimitar Diakov, Dimcho Pulov SIMULATION-BASED METROLOGICAL ASSESSMENT OF LOCAL, GLOBAL AND HYBRID OPTIMIZATION METHODS IN THE DESIGN OF A COMPACT LWIR OBJECTIVE
VIII.9. EC 63	Ted Spasov, George Milushev ASSESSMENT OF THE INFLUENCE OF THE UNCERTAINTY OF THE MEASURING TAPE ON THE UNCERTAINTY IN MEASURING THE AIR FLOW RATE IN VENTILATION SYSTEMS

Section / Секция VII**17:15 – 18:45****MEASUREMENTS IN THE ECOLOGY,
BIOTECHNOLOGY, MEDICINE, AND SPORT
ИЗМЕРВАНЕ В ЕКОЛОГИЯТА, БИОТЕХНОЛОГИИТЕ,
МЕДИЦИНАТА И СПОРТА
ИЗМЕРЕНИЯ В ЭКОЛОГИИ, В БИОТЕХНОЛОГИЯХ, В
МЕДИЦИНЕ И В СПОРТЕ**

Chairman: Assoc. Prof. N. Stoyanov, PhD
Secretary: Assist. Prof. A. Pandelova, PhD
Assist. Prof. K. Galabov, PhD

VII.1. EC 2	Jordan Dimitrov SIMPLE MODIFICATION SPEEDS-UP THE NELDER-MEAD ALGORITHM
VII.2 EC 10	Maryna Miroshnyk, Volodymir Dushkin, Ina Sydorenko MEASURING INFORMATION SOURCE SELECTION PRIORITIES AMONG CADETS IN HIGHER MATHEMATICS LEARNING
VII.3. EC 13	Olga Ivanets, Rimvidas Khrashchevskyi, Maryna Arkhyrei, Vladyslav Shlykov, Iryna Morozova, Andriy Mykolushko METHOD OF TIME SERIES ANALYSIS DURING STUDY OF BIOLOGICAL SYSTEM
VII.4. EC 14	Olga Ivanets, Rimvidas Khrashchevskyi, Vadym Sviezhenets, Denys Navrotskyi, Nataliia Bilak, Larysa Chubko FEATURES OF THE DYNAMIC INDICATORS ANALYSIS DURING STUDY SYSTEMS WITH STOCHASTIC INFLUENCE
VII.5. EC 66	Atanas Lazarov, Ilian Georgiev BIOLOGICAL ASPECT OF THE ELECTROMAGNETIC COMPATIBILITY
VII.6. EC 67	Nikola Muchov, Ilian Georgiev, Antonia Pandelova CONFIGURATION OF AN IOT-BASED ELECTRONIC NOSE FOR MEASURING ATMOSPHERIC AIR PARAMETERS

**10 September / Септември / Сентября 2026
(Thursday / Четвъртък / Четверг)**

Section / Секция X**09:00 – 10:00
10:15 – 11:30****QUALITY MANAGEMENT AND CONTROL,
STANDARDIZATION, CERTIFICATION,
ACCREDITATION
УПРАВЛЕНИЕ И КОНТРОЛ НА КАЧЕСТВОТО,
СТАНДАРТИЗАЦИЯ, СЕРТИФИКАЦИЯ,
АКРЕДИТАЦИЯ
УПРАВЛЕНИЕ И КОНТРОЛЪ КАЧЕСТВА,
СТАНДАРТИЗАЦИЯ, СЕРТИФИКАЦИЯ,
АКРЕДИТАЦИЯ**

Chairman: Prof. B. Sotirov, PhD
Secretary: Assist. Prof. D. Komarski, PhD
N. Gurov, MEng

X.1. EC 4	Tzvetelin Gueorguiev, Tsanko Karadzhov POSSIBILITIES FOR THE INTEGRATION OF ISO 10012 IN AN ACCREDITED LABORATORY
X.2. EC 6	Rosen Pasarelski, Nikolay Gurov, Teodora Pasarelska, Krasen Angelov MACHINE LEARNING MODELS FOR PREDICTION AND OPTIMIZATION OF RADIO COVERAGE FOR 5G SYSTEMS

X.3. EC 17	Martin Dimitrov, George Milushev COMPRESSION RATIO AS A KEY QUALITY INDICATOR FOR ULTRASONIC WELDED ELECTRICAL JOINTS
X.4. EC 19	Todor Todorov, Todor Gavrilov, Yavor Sofronov, Michal Demko, Marek Vrabel, Georgi Todorov ANALYSIS OF MACHINING DEVIATIONS CAUSED BY FIXTURING IN ABUTMENT MACHINING
X.5. EC 21	Todor Todorov, Todor Gavrilov, Hristiana Nikolova, Jozef Brindza, Georgi Todorov, Marek Vrabel INVESTIGATION OF TOOL WEAR IN BALL MILLING OF TITANIUM ALLOY
X.6. EC 26	Zin-Eddine Boudjaoui MEASUREMENT QUALITY AND PERFORMANCE INDICATORS IN HIGHER EDUCATION INSTITUTIONS: A FRAMEWORK FOR CONTINUOUS IMPROVEMENT
X.7. EC 50	Alexandra Tasheva, Dobri Komarski BASELINE DESIGN AND FINITE ELEMENT CHARACTERIZATION OF A PIEZO-ACTUATED XY COMPLIANT POSITIONING STAGE
X.8. EC 62	Andranik Melkonyan, Dobri Komarski PARAMETRIC DESIGN AND FEM-BASED ANALYSIS OF A COMPACT THREE-DOF FOLDED-LEAF FLEXURE JOINT
X.9. EC 68	Rositsa Miteva, Silviya Petrova-Diakova, Dimitar Diakov QUALITY ASSURANCE IN FOOD PRODUCTION

CLOSING SESSION / ЗАКРИВАЩА СЕСИЯ / ЗАКЛЮЧИТЕЛЬНОЕ ЗАСЕДАНИЕ

11:45 – 12:30

Chairman: Prof. D. Diakov, PhD

Secretary: Assoc. Prof. G. Milushev, PhD

Assist. Prof. B. Dzhudzhev, PhD

C.1.	George Milushev SUMMARY REPORT ON 36 TH ISS MMA 2026
C.2.	Ivan Kodjabashev SCIENCE NOTES REGARDING 36 TH ISS MMA 2026 AND THE NEXT 37 TH ISS MMA 2026

Important for authors! The presentation of the paper on English, shall be uploaded up to the Symposium EasyChair system up to 05.09.2026 and saved on flash-memory shall be present to the secretary of the section not later than 15 min before the beginning of the section work.

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