

**Twentieth International Scientific Conference**  
**„Space, Ecology, Safety”**

*Devoted to*

**45-TH ANNIVERSARY OF THE MISSION  
OF THE FIRST BULGARIAN ASTRONAUT  
GEORGI IVANOV**

**SES 2024**

**P R O G R A M M E**

*Sofia, 22 – 25 October 2024*

**S o f i a**

***The titles of the reports are written in the languages  
in which they will be delivered/posted***

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	Tsveta Srebrova, MS

## REGISTRATION

23.10.2024 08:30 – 11:30 Lobby on the 3rd floor of block 1

22.10.2024 (Tuesday)

Great hall of the central BAS building – 1, 15 November Str.

16:00 Official Opening

Welcome Speech

Corr. Member Petar Getsov – *Chairman of Organizational Committee*

Greeting words from the Bulgarian Academy of Sciences

Greeting Words and Addresses

Prof. Georgi JeleV – *Director of SRTI-BAS*

16:30 Plenary Session

*Tania Ivanova*

45-th anniversary of the mission of the first bulgarian astronaut Georgi Ivanov

*Prof. Dhara Singh Hooda – UST Institute - India*

Statistical methods for systems managing

*Prof. Dr. Clement Atzberger – University of Natural Resources and Life Sciences,  
Vienna, Austria*

Opportunities for natural resource management using the Sentinel-2 constellation

*Assoc. Prof. Beshir Marzouk – National Res. Inst. of Astronomy and Geophysics  
(NRIAG) - Egypt*

Prominence profiles during 2006&2016 total solar eclipses

*Dr. Edelvays Spassov – Kinometrics Inc., LA, USA*

Seismological Instruments for Space Research

*Prof. Tsvetan Dachev et all.*

Radiation field outside the ISS observed by Armas flight module 9 between March and December 2022

19:00 Welcome Party

23.10.2024 (Wednesday)

Hall 1

Session 1

## Space Physics

Chairmen: Corr. Member Peter Velinov,  
Prof. Jordanka Semkova  
Secretariy: Assoc. Prof. Daniela Boneva

- 09:00 **Jordanka Semkova, Rositza Koleva, Krasimir Krastev, Yuri Matviichuk, Borislav Tomov, Nikolay Bankov, Stephan Maltchev, Tsvetan Dachev** – Space Research and Technology Institute, Bulgarian Academy of Sciences, Sofia, Bulgaria, [jordankasemkova@gmail.com](mailto:jordankasemkova@gmail.com)  
**Igor Mitrofanov, Alexander Kozyrev, Dmitry Golovin, Maxim Mokrousov, Maxim Litvak, Nikita Lukianov** – Space Research Institute, Russian Academy of Sciences, Moscow, Russia  
**Nikita Lukianov, Vyacheslav Shurshakov, Sergey Drobyshev** – State Scientific Center of Russian Federation, Institute of Biomedical Problems, Russian Academy of Sciences, Moscow, Russia  
**Nat Gopalswamy** - NASA Goddard Space Flight Center, Greenbelt Maryland, USA  
**Radiation environment in Mars orbit during the minimum of 24 th and inclination of 25 th solar cycle according measurements on ExoMars TGO by Liulin-MO instrument**
- 09:20 **Tsvetan Dachev, Borislav Tomov, Yuriy Matviichuk, Mityo Mitev, Malina Yordanova** – Space Research and Technology Institute – BAS, [tdachev59@gmail.com](mailto:tdachev59@gmail.com)  
**Liulin-AA spectrometer measurements during the travel from Bulgarian antarctic base on Livingston island to Longyearbyen town, Svalbard archipelago, Norway and back to Sofia**
- 09:40 **Rositsa Miteva** – Institute of Astronomy and NAO - Bulgarian Academy of Sciences, [rmiteva@nao-rozhen.org](mailto:rmiteva@nao-rozhen.org)  
**Mohamed Nedal** – DIAS - Ireland  
**Astrid Veronig, Werner Poetzi** – University of Graz - Austria  
**A parameter study of confined vs. eruptive solar flares**
- 10:00 – 10:20 **Coffee Break**
- 10:20 **Rumen Shkevov** – Space Research and Technology Institute – BAS, [shkevov@space.bas.bg](mailto:shkevov@space.bas.bg)  
**Nadezhda Zolnikova, Ludmila Mikhailovskaya** – Space Research Institute - Russian Academy of Sciences, [nzolnik@iki.rssi.ru](mailto:nzolnik@iki.rssi.ru), [ludamikh@gmail.com](mailto:ludamikh@gmail.com)  
**Numerical analysis of the charged particles resonant deceleration and re-acceleration in space plasmas**

- 10:40** *Nadezhda Zolnikova, Ludmila Mikhailovskaya* – SpaceResearch Institute - Russian Academy of Sciences, *nzolnik@iki.rssi.ru*,  
*Rumen Shkevov* – Space Research and Technology Institute – BAS, *shkevov@space.bas.bg*  
**The possibility of charged particles acceleration in case of weak resonance detuning**
- 11:00** *Atanas Atanasov* – Space Research and Technology Institute – BAS, *at\_m\_atanassov@yahoo.com*  
**Development of a preliminary model for solar panel power generation with consideration for self-shading in space systems with complex structures**
- 11:20** *Rolf Werner, Veneta Guineva* – Space Research and Technology Institute – BAS, *rolwer52@yahoo.co.uk*  
*Andrey Kirillov* – Polar Geophysical Institut, Apatity, Russia  
**Atmospheric CO2 concentration forecast with the Bern-model and the development of the surface temperature**
- 11:40** *Veneta Guineva, Rolf Werner, Atanas Atanassov, Lyubomira Raykova, Dimitar Valev* – Space Research and Technology Institute – BAS, *v\_guineva@yahoo.com*  
*Roumiana Bojilova* – National Institute of Geophysics, Geodesy and Geography (NIGGG) - BAS  
**Study of the midlatitude positive bays at the magnetic station Panagyurishte during the descending phase of solar cycle 24**
- Lunch Time**
- 13:30** *Tsvetan Georgiev* – Institute of Astronomy and NAO - BAS, *tsgeorg@astro.bas.bg*  
**Revealing of repetitive structures in time series by Structure Eminence Function (SEF). Four methods.**
- 13:50** *Peter I. Velinov, Simeon Asenovski, Lachezar Mateev* – Space Research and Technology Institute – Bulgarian Academy of Sciences, *asenovski@gmail.com*  
*Alexander Mishev* – Finland  
**Exploring the differential spectra of galactic, solar and anomalous cosmic rays penetrating into the atmosphere**
- 14:10** *Daniela Boneva, Krasimira Yankova, Denislav Rusev* – Space Research and Technology Institute – BAS, *danvasan@space.bas.bg*  
**Dynamical processes and flow's formations in accretion discs of binary stars**
- 14:30** *Krasimira Yankova* – Space Research and Technology Institute – BAS, *f7@mail.space.bas.bg*  
**Cascade principle in the cosmology. Complexity levels - structure-formation and self-organization**

- 14:50**      *Peter Tonev – Space Research and Technology Institute – BAS,  
peterton@abv.bg*  
**Study of peculiar atmospheric electric field profile during solar proton  
event from October 19 1989 from rocket-borne measurements**
- 15:10 – 15:30**      **Coffee Break**
- 15:30**      *Dessislava Teneva – Space Research and Technology Institute – BAS*  
**Възможностите на спътниковите наблюдения на пълните  
слънчеви затъмнения на повърхността на Земята**
- 15:50**      *Penka Maglova, Alexey Stoev, Miroslav Kostov, Dessislava Teneva –  
Space Research and Technology Institute – BAS, stoev52@abv.bg*  
**Короната на Слънцето наблюдавана по времето на Великото  
Североамериканско пълно слънчево затъмнение на 8 април 2024 г.**
- 16:30 – 18:00**      **Poster session**
- 1-1**      *Rumiana Bojilova – National Institute of Geophysics, Geodesy and  
Geography – BAS, rbojilova@geophys.bas.bg*  
**Preliminary results of methodology for forecasting of  
ionospheric virtual height for Rome, Italy**

**23.10.2024 (Wednesday)**

**Hall 2**

**Session 2**

## **Aerospace Technologies and Biotechnologies**

Chairman: Corr. Member Petar Getsov  
Secretary: Assoc. Prof. Nikolay Zagorski

- 09:30**      ***Petar Getsov, Garo Mardirossian, Nikolay Zagorski, Pavel Penev – Space Research and Technology Institute - Bulgarian Academy of Sciences, office@space.bas.bg***  
***Boyko Ranguelov – Mining and geology University – Sofia, branguelov@gmail.com***  
**Някои резултати от изпълнението на Задача 1.1.6. от Националната Научна програма „Сигурност и отбрана“**
- 09:50**      ***Lyubomira Raykova – Space Research and Technology Institute - Bulgarian Academy of Sciences, heiti456@gmail.com***  
**The study of the influence of solar activity on the temperature regime in the constant temperature zone of the caves Saeva Dupka, Ledenika, Uhlovitsa, and Snezhanka, and the correlation with the temperatures in their neighboring towns of Smolyan, Vratsa, Lovech, and Pazardzhik**
- 10:10**      ***Konstantin Metodiev – Space Research and Technology Institute - Bulgarian Academy of Sciences, komet@mail.space.bas.bg***  
**Нелинеен модел на динамика на полета на самолет**
- 10:30**      ***Malina Jordanova – Space Research and Technology Institute - Bulgarian Academy of Sciences, mjordan@bas.bg***  
***Todor Uzunov – Medical Park Bad Camberg, Bad Camberg, Germany***  
***Frank Lievens – Managing Director of LIEVENS-LANCKMAN BVBA, Belgium & AKROMED, France, telepsychology@gmail.com***  
**Digital health for a Dime**
- 10:30 – 10:50**      **Coffee Break**
- 10:50**      ***Galina Racheva, Ivan Kindekov – Military Medical Academy - Sofia, racheva@vma.bg,***  
**Examine of the potential radiation protection ability of amino acid Betaine (N, N, N-Trimethyl Glycine) against the cellular harmful effect of the ionizing radiation in animal experimental models**
- 11:10**      ***Roxandra Pamukoff - Michelson – Medical University - Sofia, r.m.pamukova@gmail.com***  
***Velin Kamenov – National Centre of Infectious and Parasitic Diseases***  
**Болници на бъдещето**

- 11:30**      *Павел Пенев – Space Research and Technology Institute - Bulgarian Academy of Sciences, penevpb@space.bas.bg*  
**Нови функции на разузнавателните космически летателни апарати**
- 11:50**      *Zoya Hubenova, Evgeni Hubenov, Georgi Sotirov – Space Research and Technology Institute - Bulgarian Academy of Sciences, zhubenova@space.bas.bg, gsotirov@space.bas.bg*  
**Syntesis of a unified information space for critical infrastructure monitoring**
- 12:10**      *Емил Василев, Зоя Хубенова – Space Research and Technology Institute - Bulgarian Academy of Sciences, evasilev@space.bas.bg*  
**Метод за измерване на мускулния тремор при изследване състоянието на човека - оператор**
- 12:30**      *Георги Сотиров, Росен Димитров, Евгени Хубенов – Space Research and Technology Institute - BAS, GSotirov@mail.space.bas.bg*  
**Изследване на ефективността на мултисензорна система за откриване и противодействие на дронове по резултатите от проведен летателен експеримент**
- 12:50**      *Pavlin Gramatkov, Dzhulian Tahov – Space Research and Technology Institute - BAS, pgramatkov@space.bas.bg*  
**Проучване на земните недра с безпилотни летателни апарати**
- 13:10**      *Павел Синилков – Институт по роботика - БАН, sinilkov@mail.com*  
**Възможности за създаване на промишленост извън Земята**
- 15:00 – 16:00**      **Poster session**
- 2-1**      *Зоя Хубенова, Георги Сотиров – ИКИТ-БАН, zhubenova@mail.space.bas.bg*  
*Любомир Алексиев, Деанна Александрова, Даниела Иванова – ВМА-София*  
**Мултимодална биосензорна лаборатория за оценка на оператори, работещи в екстремни условия**

**23.10.2024 (Wednesday)**

**Hall 2**

**Session 3**

## **Remote Sensing and Geoinformation Systems**

Chairman: Prof. Lachezar Filchev  
Secretary: PhD Desislava Ganeva

- 13:30** *Evita Gkatzoura, Konstantinos Perakis – University of Thessaly - Greece, evitagkatz@gmail.com*  
**Mapping Urban Heat Island Intensity in Greek Regional Units: A Remote Sensing Approach Using the UTFVI Index on Google Earth Engine**
- 13:50** *Hristo Nikolov, Denitsa Borisova, Ventzeslav Dimitrov – Space Research and Technology Institute - Bulgarian Academy of Sciences, hristo@stil.bas.bg*  
**Проследяване на стресови и възстановителни процеси две житни култури базирано на полеви многоканални спектрометрични измервания**
- 14:10** *Vassil Vassilev – Space Research and Technology Institute – BAS, vasil\_gis@yahoo.com*  
*Nadya Tsvetkova, Nina Dobrinkova – Institute of Information and Communication Technologies – BAS*  
**Model approaches for forest fuel types classification with the use of remote sensing**
- 14:30 – 14:50**      **Coffee Break**
- 14:50** *Angel Manev, Dessislava Teneva – Space Research and Technology Institute – BAS, amanev@abv.bg*  
**Относно една проблематична константа в моделирането на Глобалното затопляне**
- 15:10** *Angel Manev, Alexey Stoev – Space Research and Technology Institute – BAS, amanev@abv.bg*  
**Астрономически основи на календарните корекции**
- 15:30** *Angel Manev, Alexey Stoev – Space Research and Technology Institute – BAS, amanev@abv.bg*  
**Астрономически аспекти на грешките на слънчевите календари**

- 16:10** *Milen Chanev, Lachezar Filchev – Space Research and Technology Institute - Bulgarian Academy of Sciences, [m\\_apiaster@abv.bg](mailto:m_apiaster@abv.bg)*  
**Използване на дистанционни данни за противодействие на престъпления срещу природата**
- 16:30** *Iva Ivanova, Nataliya Stankova, Temenuzhka Spasova – Space Research and Technology Institute – BAS, [ivboneva@gmail.com](mailto:ivboneva@gmail.com)*  
**Monitoring of Shabla Lake Complex for the period 2017 – 2024 using Sentinel-2 data**
- 16:50** *Dessislava Ganeva – Space Research and Technology Institute - Bulgarian Academy of Sciences, [dessislava.ganeva@gmail.com](mailto:dessislava.ganeva@gmail.com)*  
**Remote sensing in precision plant breeding**
- 17:10** *Iskren Ivanov – Space Research and Technology Institute - Bulgarian Academy of Sciences, [iskrensivanov@abv.bg](mailto:iskrensivanov@abv.bg)*  
**Стандартизирана лунна координатна система – обзор**
- 17:40 – 18:30** **Poster session**
- 3-1** *Andrey Stoyanov – Space Research and Technology Institute - Bulgarian Academy of Sciences, [andreilKIT@mail.space.bas.bg](mailto:andreilKIT@mail.space.bas.bg)*  
**Приложение на спътникови данни от Senitinel-2 за мониторинг на снежната покривка от територията на Централен Балкан, Стара планина**
- 3-2** *Zhivko Uzunov, Bilyana Kostova, Boyan Dumanov, Ralitza Berberova – New Bulgarian University, Natural Sciences Department, [rberberova@nbu.bg](mailto:rberberova@nbu.bg)*  
**Археология и ландшафт. Използване на аерофотографията при възстановяване на селищните модели в околностите на антична Месамбрия Понтика**
- 3-3** *Adlin Dancheva, Temenuzhka Spasova – Space Research and Technology Institute - Bulgarian Academy of Sciences, [adlin.dancheva@space.bas.bg](mailto:adlin.dancheva@space.bas.bg)*  
**Application of remote sensing data to monitor the thermal pollution from waste disposal sites**
- 3-4** *Zlatomir Dimitrov – Space Research and Technology Institute - Bulgarian Academy of Sciences, [zlatomir.d.dimitrov@gmail.com](mailto:zlatomir.d.dimitrov@gmail.com)*  
**TerraSAR-X dual-pol polarimetric SAR data processing on paddy rice fields in different seasons**

24.10.2024(Thursday)

Hall 1

Session 4

## Ecology and Risk Management

Chairman: Prof. Garo Mardirossian

Secretary: Assoc. Prof. Maria Dimitrova

- 10:00** *Boyko Ranguelov – Mining and geology University – Sofia, branguelov@gmail.com*  
*Memet Salih Bayraktutan – Technical University - Igdir, batuta59ms@gmail.com*  
*Fathimath Shadiya – Maldives National University – Male, fathimath.shadiya@mnu.edu.mv*  
*Edelvays Spassov – Kinematics – LA, espasov@yahoo.com*  
**Natural hazards in Bulgaria and Maldives**
- 10:20** *Димитър Димитров – Национален институт по геофизика, геодезия и география - БАН, clgdimi@abv.bg*  
**Земетресенията ”Чирпан – Пловдив” от Април 1928 г. – механизъм, природа, сеизмичен цикъл и опасност**
- 10:40** *Stanimir Karapetkov, Kamen Ishtev, Diana Bankova, Elka Radeva, Dimo Dimov, Petia Minkova, Daniela Arnaudova, Simeon Panev – Technical University - Sofia, skarapetkov@yahoo.com*  
*Emad Abdulahad – University of Architecture, Civil Engineering and Geodesy - Sofia, georgosing@gmail.comk ,*  
*Ivan Demerdjiev – Demerdjiev, Petrov, Baev”, dpblawyers@abv.bg*  
*Philip Philipoff – Institute of Mechanics-BAS, philip.philipoff.decable.dregan@gmail.com*  
*Venkatanathan Natarajan – Sastra University, India, physics16972@gmail.com*  
*Mario Muñoz Organero – Universidad Carlos III de Madrid, Spain, munozm@it.uc3m.es*  
*Mehmet Salih Bayraktutan – Ata.Univ. Freelancer. Erzurum. Turkey, batuta59ms@gmail.com*  
*Blagovest Panev – LevIns Insurance Company, blago\_99@yahoo.com*  
*Venelin Kondov – Kondov & Kaliqi design team, Rome, Italy, venelinkondov@gmail.com*  
**Signal Processing of Wave Propagation Problems through Dynamical Condensation Approach**

**11:00**      **Stanimir Karapetkov, Kamen Ishtev, Diana Bankova, Elka Radeva, Petia Minkova, Daniela Arnaudova, Simeon Panev** – Technical University - Sofia, [skarapetkov@yahoo.com](mailto:skarapetkov@yahoo.com)  
**Ivan Demerdjiev** – Demerdjiev, Petrov, Baev”, [dpblawyers@abv.bg](mailto:dpblawyers@abv.bg)  
**Philip Philipoff** – Institute of Mechanics-BAS, [philip.philipoff.decable.dregan@gmail.com](mailto:philip.philipoff.decable.dregan@gmail.com)  
**Venkatanathan Natarajan** – Sastra University, India, [physics16972@gmail.com](mailto:physics16972@gmail.com)  
**Mario Muñoz Organero** – Universidad Carlos III de Madrid, Spain, [munozm@it.uc3m.es](mailto:munozm@it.uc3m.es)  
**Mehmet Salih Bayraktutan** – Ata.Univ. Freelancer. Erzurum. Turkey, [batuta59ms@gmail.com](mailto:batuta59ms@gmail.com)  
**Blagovest Panev** – LevIns Insurance Company, [blago\\_99@yahoo.com](mailto:blago_99@yahoo.com)  
**Venelin Kondov** – Kondov & Kaliqi design team, Rome, Italy, [venelinkondov@gmail.com](mailto:venelinkondov@gmail.com)  
**Dimo Dimov** – BestVet Clinic, [bestvet@abv.bg](mailto:bestvet@abv.bg)  
**Galina Maslarska, Ilian Dinev** - GPS Control EAD, [dinev@tls.bg](mailto:dinev@tls.bg)  
**Seismic, wind and fire protection of buildings and facilities through renovation of existing elevator devices within the national neural network**

**11:20 – 11:40**      **Coffee Break**

- 11:40**      **Добрин Анастасов** – Военна академия „Г.С.Раковски“, София, [andrei\\_kolev1981@abv.bg](mailto:andrei_kolev1981@abv.bg)  
**Изкуственият интелект – мултипликатор на неконвенционалните бойни действия (Irregular Warfare) водени от постмодерните терористични организации**
- 12:00**      **Maria Dimitrova** – Space Research and Technology Institute - Bulgarian Academy of Sciences, [maria@space.bas.bg](mailto:maria@space.bas.bg)  
**Анализ на пространственото разпределение на праховото замърсяване над София по данни от АИС**
- 12:20**      **Maria Dimitrova** – Space Research and Technology Institute - Bulgarian Academy of Sciences, [maria@space.bas.bg](mailto:maria@space.bas.bg)  
**Типове АИС за фини прахови частици в България – сравнителни характеристики, брой и разположение**
- 12:40**      **Hristina Prodanova, Vanya Stoycheva, Ivaylo Ananiev, Stoyan Nedkov** – National Institute of Geophysics Geodesy and Geography – BAS, [hristina.zh.prodanova@gmail.com](mailto:hristina.zh.prodanova@gmail.com)  
**Mapping of ecosystems for the needs of INTEGRATED river basin management**

### Lunch Time

- 14:00 **Elitza Uzunova, Ivan Stoev, Garo Mardirossian** – *Space Research and Technology Institute – BAS, elizauzunova@gmail.com*  
**Изследване на зелените площи в градската среда с използване на методи на машинно самообучение и географски информационни системи (ГИС)**
- 14:20 **Ivaylo Ananiev, Vanya Stoycheva, Stoyan Nedkov** – *National Institute of Geophysics Geodesy and Geography – BAS,*  
**Assessing ecosystems and their services in urban areas: The case of urban condition indicators for Sofia, Bulgaria**
- 14:40 **Roxandra Pamukoff - Michelson** – *Medical University - Sofia, r.m.pamukova@gmail.com*  
**Velin Kamenov** – *Национален център по заразни и паразитни болести*  
**Екологични технологии: бактерициден и противовирусен ефект на основни билкови подправки**
- 15:00 **Nadya Marinova** – *New Bulgarian University, nmarinova@nbu.bg*  
**Пазарната конюнктура: ключови въпроси и стратегически решения**
- 15:20 **Nadya Marinova** – *New Bulgarian University, nmarinova@nbu.bg*  
**Пазарна конюнктура и конкурентно поведение – проблеми и модели**

### 16:00 – 17:00 Poster session

- 4-1 **Ralitza Berberova, Bilyana Kostova** – *New Bulgarian University, Natural Sciences Department, rberberova@nbu.bg*  
**Анализ на данни за кризите с хидроложки, геоложки и атмосферен произход на територията на България за периода 2010–2020 г.**

24.10.2024 (Thursday)

Hall 2

Session 5

## Space Material Science and Nanotechnology

Chairman: Prof. Dimitar Teodosiev

Secretary: Daniela Shuleva

- 10:20 **Dimitar Teodosiev, Anna Bouzekova-Penkova** – Space Research and Technology Institute - Bulgarian Academy of Sciences, [a\\_bouzekova@abv.bg](mailto:a_bouzekova@abv.bg)  
**Dimitar Tonev, Elena Geleva, Bozhidar Slavchev** – Institute for Nuclear Research and Nuclear Energy – BAS  
Оценка на специфичната активност на  $^{14}\text{C}$  в стъкловъглеродни покрития след продължителен престой на Международната космическа станция
- 10:40 **Dimitar Teodosiev, Anna Bouzekova-Penkova, Yuri Matviichuk, Garo Mardirossian** – Space Research and Technology Institute - Bulgarian Academy of Sciences, [a\\_bouzekova@abv.bg](mailto:a_bouzekova@abv.bg)  
Оценка на електромагнитни излъчвания в диапазона от 100 kHz до 7 GHz в урбанизирана среда (Столична община)
- 11:00 **Adelina Miteva** – Space Research and Technology Institute - Bulgarian Academy of Sciences, [ad.miteva@gmail.com](mailto:ad.miteva@gmail.com)  
Aerospace applications of shape memory alloys
- 11:20 – 11:40 **Coffee Break**
- 11:40 **Petya Tabakova, Anna Petrova** – Space Research and Technology Institute - Bulgarian Academy of Sciences, [tangrascorp@gmail.com](mailto:tangrascorp@gmail.com)  
Свойства и приложения на сплав Ti-6Al-4V
- 12:00 **Anna Petrova, Petya Tabakova** – Space Research and Technology Institute - Bulgarian Academy of Sciences, [ani@phys.bas.bg](mailto:ani@phys.bas.bg)  
Подходи при въвеждането на космическите технологии за ученици
- 12:20 **Margarita Dimitrova** – Space Research and Technology Institute - Bulgarian Academy of Sciences, [maggy.pd@gmail.com](mailto:maggy.pd@gmail.com)  
Влияние на космическата радиация върху материалите и изчислителни методи за симулация
- 14:30 – 16:00 **Poster session**

**25.10.2024**  
**(Friday)**

### Hall 1

**10:00 – 13:00**

#### ***Special Session***

#### **Current projects of SRTI – BAS**

- National Science Program "Security and Defense"
- Sustainable Disaster and Emergency Management – SUDEM, funded by the Erasmus + programme
- 2021-2-8: Copernicus4Schools – The Great Disaster Challenge
- User Uptake of Copernicus Services for Landscape and Spatial Planning Stakeholders

### Coffee Break

**14:00 – 16:45**

#### **Rounde Table & Discussion**

**17:00**

#### **Closing Ceremony of the Conference**

### Hall 2

**09:00 – 16:45**

#### **Youth Session**

Chairman: Prof. Georgi Jelev

#### **Участват с доклади курсанти и ученици**

<b>№</b>	<b>Име на участника</b>	<b>Тема на доклада/презентация</b>	<b>Училище/ВУЗ</b>
1.	Атанас Владимиров Гоневски - 9 клас	Екологично чисти технологии за ракетно гориво и двигатели	Професионална гимназия по екология и биотехнологии „Проф. д-р Асен Златаров“, София
2.	Деян Милен Ненков -12 клас	Въздействие на космическите лъчи върху биологичните системи на Земята	Професионална гимназия по екология и биотехнологии „Проф. д-р Асен Златаров“, София
3.	Яна Николаева Амзина - 11 клас	Роля на сателитите в мониторинга на климатичните промени	Професионална гимназия по екология и биотехнологии „Проф. д-р Асен Златаров“, София
4.	Рая Александрова Ралчева - 11 клас	Космически отпадъци: предизвикателства и решения за опазване на орбиталната екосистема	Професионална гимназия по екология и биотехнологии „Проф. д-р Асен Златаров“, София

5.	Богдан Юлианов Димитров - 10 клас	Мониторинг на земните екосистеми от космоса: сателитни технологии и тяхното приложение	Професионална гимназия по екология и биотехнологии „Проф. д-р Асен Златаров“, София
6.	Виктория Николаева Кирилова - 10 клас	Устойчиви технологии и иновации за мониторинг на околната среда от космоса"	Професионална гимназия по екология и биотехнологии „Проф. д-р Асен Златаров“, София
7.	Мария Цветанова Вацева - 10 клас	Въздействие на космическите мисии върху земната атмосфера и стратосфера	Професионална гимназия по екология и биотехнологии „Проф. д-р Асен Златаров“, София
8.	Радослав Огнянов Сергеев - 10 клас, Деян Самарджиев, Теменужка Емилова Вълкова	Роля на сателитите в мониторинга на климатичните промени	19 СОУ "Елин Пелин", София
9.	Васил Величков Агов - 3 курс курсант	Киберсигурност в космическите мисии и сателитни комуникации	Национален военен университет „В. Левски“, Велико Търново
10.	Даяна Христова Велинова - 4 курс курсант, Гергана Николаева Дойчинова	Глобални навигационни системи и тяхното значение за военната сигурност	Национален военен университет „В. Левски“, Велико Търново
11.	Жасмин Христова Йорданова - 4 курс курсант	Космическа сигурност: предотвратяване на конфликти в орбита	Национален военен университет „В. Левски“, Велико Търново
12.	Георги Богданов	Глобално навигационни системи и тяхното значение за военната сигурност	Национален военен университет „В. Левски“, Велико Търново
13.	Анелия Близнакова	Предизвикателства на слънчевата енергия от космоса	Висше Военновъздушно Училище "Георги Бенковски"
14.	Николай Георгиев Гюров	Опасността от космическите отпадъци	Висше Военновъздушно Училище "Георги Бенковски"
15.	Антон Бориславов Тодоров	Биорегенеративни системи за дългосрочни мисии: Създаване на затворени екосистеми „До безкрая и отвъд“	74 СУ "Гоце Делчев"
16.	Теменужка Вълкова, Радослав Сергеев, Деян Самарджиев	Ролята на сателитите в мониторинга на климатичните промени	19 СОУ "Елин Пелин", София
17.	Калоян Владиславов Цанев - 12 клас	Космически технологии и тяхното въздействие върху съвременното общество	Първа частна математическа гимназия

## A G E N D A

Date	Central BAS building
<b>22.10.2024</b> <b>Thursday</b>	<p>16:00 Opening Ceremony</p> <p>16:30 Plenary Session</p> <p>Welcome Party 19:00 – 20:30</p>

Date	Hall 1 - block 1	Hall 2 - block 1
<b>23.10.2024</b> <b>Wednesday</b>	<p>09:00 – 12:20 <i>Session 1</i> "Space Physics"</p>	<p>09:30 – 13:00 <i>Session 2</i> "Aerospace Technologies and Biotechnologies"</p>
<b>23.10.2024</b> <b>Wednesday</b>	<p>13:30 – 18:00 <i>Session 1</i> "Space Physics"</p>	<p>13:30 – 18:30 <i>Session 3</i> „Remote Sensing and GIS"</p>
<b>24.10.2024</b> <b>Thursday</b>	<p>10:00 – 12:00 <i>Session 4</i> "Ecology and Risk Management"</p>	<p>10:20 – 13:00 <i>Session 5</i> "Space Material Science and Nanotechnologies"</p>
<b>24.10.2024</b> <b>Thursday</b>	<p>13:30 – 18:00 <i>Session 4</i> "Ecology and Risk Management"</p>	<p>13:30 – 18:00 <i>Youth Session</i></p>

<p><b>25.10.2024</b> <b>Friday</b></p>	<p>10:00 – 13:00 <i>Special Session</i> Current projects of SRTI - BAS</p> <p>National Science Program "Security and Defense"</p> <p>SUstainable Disaster and Emergency Management – SUDEM, funded by the Erasmus+ programme</p> <p>2021-2-8: Copernicus4Schools – The Great Disaster Challenge</p> <p>User Uptake of Copernicus Services for Landscape and Spatial Planning Stakeholders</p> <p>14:00 – 16:45 Rounde Table &amp; Discussion</p> <p>17:00 Closing of the Conference</p>	<p>09:30 – 16:45 <i>Youth Session</i></p>
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**All poster sessions will be held the lobby on  
the 3rd floor of block 1**

# ***NOTES***