

THE INTERNATIONAL ONLINE-FORUM OF SCIENTIFIC YOUTH «STEP INTO THE FUTURE»

Moscow, Russia, 22 March - 30 April 2021

## ENGINEERING

No п/п	Time of presentation	Country	Name of participant, School, Grade	Title of project	Category
<b>April, 12 from 1.00 p.m. to 4.00 p.m. (MSK, GMT+3)</b>					
1.	<b>1.05 p.m.</b> presentation – 7-10 min Q&A – 5 min	South Korea	Seol Won HONG Heungdeok High School, 10 grade	FOG HARVESTER USING STAINLESS STEEL AND TEFLON WIRE	Engineering
2.	<b>1.20 p.m.</b> presentation – 7-10 min Q&A – 5 min	Indonesia	Gede Herry Arum WIJAYA I Dewa Agung Ary Aditya WIBAWA Universitas Prasetiya Mulya, last year	I-BESS (INTELLIGENT BATTERY ENERGY STORAGE SYSTEM): INNOVATION OF AUTOMATED ENERGY STORAGE BATTERY SYSTEMS BASED ON ARTIFICIAL INTELLIGENCE IN RENEWABLE ENERGY POWER PLANTS	Engineering
3.	<b>1.35 p.m.</b> presentation – 7-10 min Q&A – 5 min	Nepal	Shubhangini SHAH Brainycube Research Organization, 1 year	AUGMENTED REALITY APPROACH TO CURE COLOUR BLINDNESS	Engineering
4.	<b>1.50 p.m.</b> presentation – 7-10 min Q&A – 5 min	Nepal	Sujita KC Brainycube Research Organization, 2 year	AERIAL SURVEILLANCE	Engineering
5.	<b>2.05 p.m.</b> presentation – 7-10 min Q&A – 5 min	United Kingdom	Brendan Michael MIRALLES Loughborough Grammar School, 11 grade	USING DATA SCIENCE TO CREATE AN EARLY WILDFIRE DETECTION SYSTEM	Engineering
6.	<b>2.20 p.m.</b> presentation – 7-10 min Q&A – 5 min	Israel	Tomer GAT Ori Cohen BAZAK GreenStart Academy, HaKfarHaYarok High School, 10 grade	SAFEGUARD	Engineering
7.	<b>2.35 p.m.</b> presentation – 7-10 min Q&A – 5 min	Portugal	Hugo COSTA Hugo REMELGADO Rita MATOS D.Maria II Secondary School, 12 grade	DEVELOPMENT OF AN INTEGRATED SYSTEM FOR DETECTING AND ALERTING IONIZING RADIATION	Engineering

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8.	<b>2.50 p.m.</b> presentation – 7-10 min Q&A – 5 min	Turkey	Yaman HAS Ceren ZOR Buca Municipality Kızılchullu Science and Art Center-Buca IMSEF, 10 grade	LIFESAVER DETECTOR	Engineering
9.	<b>3.05 p.m.</b> presentation – 7-10 min Q&A – 5 min	Israel	Guy ELKAYAM Tamar OSTFELD Noam VASHDY Jonathan LEON Emma DOMBROVER GreenStart Academy, HaKfarHaYarok High School, Ramat HaSharon, 10 grade	BYX – A SYSTEM THAT PREVENTS RIDING BIKES WITH NO HELMET	Engineering
10.	<b>3.20 p.m.</b> presentation – 7-10 min Q&A – 5 min	Latvia	Krisjanis BLUMS Liepaja Rainis Highschool №6, 12 grade	AEROSPIKE ROCKET ENGINE THRUST VECTORING	Engineering
11.	<b>3.35 p.m.</b> presentation – 7-10 min Q&A – 5 min	Spain	Ramiro VALDÉS IES Painter Antonio López, final year	IES PINTOR ANTONIO LOPEZ'S TRANSITION TO PHOTOVOLTAIC ENERGY	Engineering
<b>April, 14 from 3.00 p.m. to 6.00 p.m. (MSK, GMT+3)</b>					
12.	<b>3.05 p.m.</b> presentation – 7-10 min Q&A – 5 min	France	Gabriel RAMSSISS Lycée Parc de Vilgénis, last year	POLLUBIKE: MODELING AND BIKING TO MEASURE AIR QUALITY	Engineering
13.	<b>3.20 p.m.</b> presentation – 7-10 min Q&A – 5 min	Switzerland	Max SCHALDACH Freies Gymnasium Zürich, 12 grade	DEVELOPMENT OF A ROTOR WITH IMPROVED AERODYNAMICS TO PROPEL A QUADCOPTER	Engineering
14.	<b>3.35 p.m.</b> presentation – 7-10 min Q&A – 5 min	Israel	Ido SHARON Nadav AVIRAN Ori COHEN Itay COHEN	DRIVEALIVE BY LEECHY - AN IMMOBILIZER THAT PREVENTS DRIVERS FROM DRIVING UNDER THE INFLUENCE OF ALCOHOL	Engineering

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			Rotem MOSES GreenStart Academy, HaKfarHaYarok High School, Ramat HaSharon, 10 grade, 11 grade, 12 grade		
15.	<b>3.50 p.m.</b> presentation – 7-10 min Q&A – 5 min	Turkey	Sümeyye KARABULUT Ceylin MIHCHI Science and Anatolian High School, 12 grade	BRIGHT FLOORS FOR OUR ELDERS SHEDDING LIGHT ON OUR FUTURE: AYZEM	Engineering
16.	<b>4.05 p.m.</b> presentation – 7-10 min Q&A – 5 min	Russia	Nikita ELISTRATOV Surgut Natural Science Lyceum, 11 grade	ELECTROMAGNETIC INDUCTION AS A SOURCE OF "SECONDARY" ELECTRICITY	Engineering
17.	<b>4.20 p.m.</b> presentation – 7-10 min Q&A – 5 min	United Kingdom	Lily Yordanova DIMITROVA Evelyn Mai WILLIAMS Leicester Grammar School, 10 grade	SMART TENDON BOOTS FOR SHOWJUMPERS	Engineering
18.	<b>4.35 p.m.</b> presentation – 7-10 min Q&A – 5 min	Slovakia	Adrián KOMANEK Patrik MICHLIAN Associated school, 4 grade	FRIENDLY DALEK – Autonomous Robot	Engineering
19.	<b>4.50 p.m.</b> presentation – 7-10 min Q&A – 5 min	Tunisia	Chaima ZAKHMA Nasrine KARMANI Tasnim BEN BRAHIM The Tunisian Association for The future of Sciences and Technology ATAST, 12 grade	THE BLIND'S SHINE – THE UNIVERSAL BRAILLE PRINTER	Engineering

## FORMAL SCIENCES (Mathematics, Computer Sciences)

№ п/п	Time of presentation	Country	Name of participant, School, Grade	Title of project	Category
<b>April, 16 from 1.00 p.m. to 4.00 p.m. (MSK, GMT+3)</b>					
20.	<b>1.05 p.m.</b> presentation – 7-10 min Q&A – 5 min	South Korea	Seongjun HEO Korea Science Academy of KAIST, 11 grade	GEOMETRIC EXPLANATION OF CLASS NUMBER FORMULA	Mathematics
21.	<b>1.20 p.m.</b> presentation – 7-10 min Q&A – 5 min	Russia	Nikolay CHERVOV Gymnasium №40 named after the People's Teacher of the USSR Ovsievskaya Rufina Serafimovna, 11 grade	ABOUT A PROBLEM IN THE JOURNAL "CRUX MATHEMATICORUM" (OR THE D. J. SMEENK PROBLEM)	Mathematics
22.	<b>1.35 p.m.</b> presentation – 7-10 min Q&A – 5 min	Nepal	Saumya LOHANI Brainycube Research Organization, 1 year	CRIME ALERT APP	Computer Sciences
23.	<b>1.50 p.m.</b> presentation – 7-10 min Q&A – 5 min	Zimbabwe	Munashe Shane KAGODO Saint Francis Xavier's Kutama College, 2 grade	MYNOTEBOOK: THE FREE ONLINE E-LEARNING PLATFORM	Computer Science
24.	<b>2.05 p.m.</b> presentation – 7-10 min Q&A – 5 min	Bulgaria	Anna Rosenova MIHALKOVA Sofia High School of Mathematics, 12 grade	RANKING OF THE VERTICES IN A WEIGHTED GRAPH	Mathematics
25.	<b>2.20 p.m.</b> presentation – 7-10 min Q&A – 5 min	Bulgaria	Victor Stilianov KOLEV Sofia High School of Mathematics, 12 grade	MEMORY-AUGMENTED NEURAL AGENTS FOR DEEP MODEL-FREE REINFORCEMENT LEARNING	Computer Sciences
26.	<b>2.35 p.m.</b> presentation – 7-10 min Q&A – 5 min	Serbia	Nikola Kušlaković Gymnasium «Isidora Sekulić», 3 grade	COMPARISON OF EPIDEMIC SIMULATION EFFICIENCY ON A CENTRAL PROCESSING UNIT AND A GRAPHIC PROCESSING UNIT	Computer Science
27.	<b>2.50 p.m.</b> presentation – 7-10 min Q&A – 5 min	United Kingdom	Ashish Anand SINGH Anshul Samir DANI Loughborough Grammar School, 10 grade	UNIVERSALISING LEADING HEALTH CARE BUDGETING SYSTEMS BY APPLYING SUPERVISED MACHINE LEARNING THROUGH INTEGRATING RECURRENT NEURAL NETWORKS	Computer Sciences, Mathematics

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28.	<b>3.05 p.m.</b> presentation – 7-10 min Q&A – 5 min	Czech Republic	Max FORMAN Gymnasium Evolution Jižní Město, 6 grade	DESCENT OF ORDERED QUADRUPLES	Mathematics
29.	<b>3.20 p.m.</b> presentation – 7-10 min Q&A – 5 min	Russia	Angelina KOLOSOVSKAYA Lyceum №13, 11 grade	DEVELOPMENT OF THE PROGRAM "MATRIX CALCULATOR" ON VBA	Computer Science
30.	<b>3.35 p.m.</b> presentation – 7-10 min Q&A – 5 min	Turkey	Zeynep KOCA Ceren CELAYİR Izmir High School Of Science, 12 grade	A MATHEMATICAL APPROACH TO THE RUMOR SPREAD: MULTIPLE TYPES, MULTIPLE ENDINGS	Mathematics
31.	<b>3.50 p.m.</b> presentation – 7-10 min Q&A – 5 min	Slovakia	Miroslava CIBULA School for Exceptionally Gifted Children, 8 grade	OMNIS: MODULAR QUESTION ANSWERING WEB SEARCH ENGINE	Computer Science

### NATURAL SCIENCES (Physics, Chemistry, Biology)

No n/n	Time of presentation	Country	Name of participant, School, Grade	Title of project	Category
<b>April, 12 from 3.00 p.m. to 6.40 p.m. (MSK, GMT+3)</b>					
32.	<b>3.05 p.m.</b> presentation – 7-10 min Q&A – 5 min	Indonesia	Neyza Farah NAJMASARI Muzena Hisyam OKBAH Amalia Syahbani Zulvina PUTRI Al-Hikmah Senior High School Surabaya, 2 grade	VEMALE HEALTHY MASK: (UTILIZATION OF SANSIVIERIA AND MALALEUCA EXTRACTS AS A CO ADSORBENT AND ANTIBACTERIAL MASK)	Chemistry
33.	<b>3.20 p.m.</b> presentation – 7-10 min Q&A – 5 min	Indonesia	Klinka Feyruz CHALISA Armelyza Alder RUSTAM SMA Taruna Bakti Bandung, 10 grade	CFC (CHLOROPHYLL FUEL CELL) : ELECTRICITY TEST OF THE CHLOROPHYLL OF PAPAYA LEAVES (CARICA PAPAYA L) AS A GREEN POWER SOURCE OF ELECTRICITY	Chemistry
34.	<b>3.35 p.m.</b> presentation – 7-10 min Q&A – 5 min	Indonesia	Muh. Taufiq M Ulfiyaningsih Universities Islam Negeri Alauddin Makassar, 5 year	QSAR ANALYSIS AND DESIGN OF A NEW AMINOALKANOL XANTHONE DERIVATIVE COMPOUND AS ANTICANCER	Chemistry

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35.	<b>3.50 p.m.</b> presentation – 7-10 min Q&A – 5 min	Luxembourg	Kajal KARKI Jennifer MICHAEL Anna BATMANOVA Young Scientists Foundation Luxembourg, 12 grade	DEGRADATION OF PLASTIC POLYMERS USING GENETICALLY MODIFIED BACTERIA	Biology, Chemistry, Environmental Sciences
36.	<b>4.05 p.m.</b> presentation – 7-10 min Q&A – 5 min	Turkey	Murat ISHIK Ege CHALISHKAN Buca Municipality Kizilchullu Science and Art Center- Buca IMSEF, 10 grade	BIOINFORMATIC PREDICTION OF CORONAVIRUS (SARS-COV-2) MUTATIONS THAT INCREASE CONTAGIOUSNESS	Bioinformatic, Biology
37.	<b>4.20 p.m.</b> presentation – 7-10 min Q&A – 5 min	Spain	Jorge Parra GARCIA Secondary school of Alcantarilla, 2 year	PORTMÁN, A WEIGHT PROBLEM. THE PARADIGM OF SOIL CONTAMINATION	Ecology
38.	<b>4.35 p.m.</b> presentation – 7-10 min Q&A – 5 min	Serbia	Filip Koldzich Mathematical Gymnasium, 4 grade	NOVEL IMIDAZOLE-BASED DYES: SYNTHESIS AND INVESTIGATION OF VARIOUS TYPES OF CHROMISM	Chemistry
39.	<b>4.50 p.m.</b> presentation – 7-10 min Q&A – 5 min	Bulgaria	Nikolay Nikolaev GEORGIEV Sofia High School of Mathematics, 12 grade	GENE EXPRESSION LEVELS OF PRM1 AS A POTENTIAL BIOMARKER FOR REPRODUCTIVE TRAITS IN RAMS	Biology
40.	<b>5.05 p.m.</b> presentation – 7-10 min Q&A – 5 min	France	David BARBIN Lyceum of Douanier Rousseau, 12 grade	IS THE STUDY OF CHEMICAL REACTIONS POSSIBLE ON THE SCALE OF A DROP?	Physics, Chemistry
41.	<b>5.20 p.m.</b> presentation – 7-10 min Q&A – 5 min	Czech Republic	Alesh SOCHA Gymnasium a SOŠ, 4 grade	AUTOMATION TESTING OF STRIP SILICON DETECTORS FOR EXPERIMENT ATLAS AT CERN	Physics
42.	<b>5.35 p.m.</b> presentation – 7-10 min Q&A – 5 min	Slovakia	Greta KOLCUNOVA Leonardo Stockela Gymnasium, 4 grade	COMPARISON OF THE USE OF WHITLOCK- VIBERT BOXES AND EXTERNAL HATCHERIES FOR THE REINTRODUCTION OF THE BROWN TROUT	Biology
43.	<b>5.50 p.m.</b> presentation – 7-10 min Q&A – 5 min	Kazakhstan	Dinmukhamed MURATOV Nazarbayev Intellectual School in Aktau, 9 grade	ALTERNATIVE METHODS OF GROWING SUBSTRATES	Biology
44.	<b>6.05 p.m.</b> presentation – 7-10 min	Russia	Arina PLESKEVICH Gymnasium №28, Kostroma, 10 grade	LOCALIZATION OF LARVAE OF THE EUROPEAN BROOK LAMPREY IN THE TEGE RIVER	Biology

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	Q&A – 5 min			(KOSTROMA REGION) IN RELATION TO THE QUALITY OF HABITAT CONDITIONS: NEW DATA FOR MONITORING OF THE RED BOOK	
<b>April, 14 from 1.30 p.m. to 5.30 p.m. (MSK, GMT+3)</b>					
45.	<b>1.35 p.m.</b> presentation – 7-10 min Q&A – 5 min	South Korea	Seojun LEE Gyeonggi Science High School for the Gifted, 3 year	ANALYSIS OF THE ELECTRICAL PERCOLATION THRESHOLD AND CRITICAL EXPONENT OF A GRAPHITE LINE ON PAPER	Physics
46.	<b>1.50 p.m.</b> presentation – 7-10 min Q&A – 5 min	Russia	Taisiya SEMENOVA Polytechnic Lyceum, 10 grade	INVESTIGATION OF THE BEHAVIOR OF AIR BUBBLES IN A COLUMN OF LIQUID IN THE CASE OF A NON-INERTIAL REFERENCE FRAME	Physics
47.	<b>2.05 p.m.</b> presentation – 7-10 min Q&A – 5 min	China	ZHANG Yue Qingdao No.2 Middle School of Shandong Province, 2 grade	SCREENING OF TUMOR DRUG RESISTANCE GENES BY BIOINFORMATICS – EGFR TARGETING DRUGS AS AN EXAMPLE	Biology
48.	<b>2.20 p.m.</b> presentation – 7-10 min Q&A – 5 min	Indonesia	Riska Kurniawati Dian Septiawati Padjadjaran University, 2 year	MEASUREMENTS OF RED, GREEN, BLUE (RGB) IMAGE VALUE, LIGHT INTENSITY, HUE VALUE OF LEAFS AND SOIL SALINITY AS THE BASIS OF HEALTH ECOSYSTEM MAPPING OF RHYZOPHORA STYLOSA	Chemistry, Biology
49.	<b>2.35 p.m.</b> presentation – 7-10 min Q&A – 5 min	China	Minglei SU Licheng LU High School Affiliated to Shanghai Jiao Tong University, 11 grade	ASSOCIATION OF SLC6A3, ADRA2A, COMT GENE POLYMORPHISMS WITH INTROVERSION AND EXTROVERSION	Biology
50.	<b>2.50 p.m.</b> presentation – 7-10 min Q&A – 5 min	Indonesia	Anjali Nuranda Nabilla Salsabilah DAULAY Bengkulu University, 3 year	HAKAKURA ANTIBACTERIAL ACTIVITIES (HAND SANITIZER KALAMANSI, WASTA DURIAN SKIN, AND ALOEVERA) AGAINST ESCHERICHIA COLI AND STAPHYLOCOCCUS AUREUS BACTERIA	Chemistry, Biology
51.	<b>3.05 p.m.</b> presentation – 7-10 min Q&A – 5 min	China	Yiyang ZHAO High school Henan Experimental Middle School, 2 grade	BIOMIMETIC SYNTHESSES OF NATURAL CHROMOPHORIC PHENOXAZINONE COMPOUNDS	Biology

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52.	<b>3.20 p.m.</b> presentation – 7-10 min Q&A – 5 min	Indonesia	Erlin Widjaja Prajna Wijaya Narada Junior High School	EFPP PACKAGE: AN ECO-FRIENDLY AND PRACTICAL PHARMACEUTICAL PACKAGING FOR ELDERLIES AND CHILDREN	Chemistry
53.	<b>3.35 p.m.</b> presentation – 7-10 min Q&A – 5 min	Zimbabwe	Rachel Ruvimbo MAKONYE Queen Elizabeth High School, 4 grade	PLASTIC DISSOLVING CAPSULE FOR LIVESTOCK	Chemistry
54.	<b>3.50 p.m.</b> presentation – 7-10 min Q&A – 5 min	France	Tristan RONDEAU Lyceum of Eduard BRANLY, 12 grade	THE GOLDSMITH'S CRYSTAL	Physics
55.	<b>4.05 p.m.</b> presentation – 7-10 min Q&A – 5 min	Zimbabwe	Aasia Qamar SIAL Chisipite Senior School, 1 grade	MAGNAMILL	Physics
56.	<b>4.20 p.m.</b> presentation – 7-10 min Q&A – 5 min	Spain	Jorge Perez GONZALEZ IES Secondary School of Jovellanos Royal Institute, 2 year	CHARACTERIZATION OF THE VARIABLE STAR EPIC 246257206 DISCOVERED WITH K2-C12-FOV OBSERVATIONS MADE BY THE KEPLER SPACE TELESCOPE	Physics, Astronomy
57.	<b>4.35 p.m.</b> presentation – 7-10 min Q&A – 5 min	Italy	Alice BARBERIO Mattia BROLLO Andrei GHERASE Ascanio Sobrero Technical and Industrial Institute, 1 year	BIO-N.C.S. CIRCULAR ECONOMY OF RICE: FROM PRODUCTION WASTE TO BIOPLASTICS	Chemistry
58.	<b>4.50 p.m.</b> presentation – 7-10 min Q&A – 5 min	Slovenia	Luka Irenej PECHAN University of Ljubljana, 1 year	QUANTITATIVE DETERMINATION OF BIOLOGICALLY ACTIVE COMPOUNDS IN INDUSTRIAL HEMP (CANNABIS SATIVA SUBSP. SATIVA L.) AND ITS MICROBIOLOGY QUALITY	Chemistry, Microbiology
59.	<b>5.05 p.m.</b> presentation – 7-10 min Q&A – 5 min	Portugal	Joao CARVALHO Klara VARGA Sara COUTO Portugal-French College, 12 grade	ATMOS – QUANTIFICATION OF THE ECOSYSTEM SERVICES PROVIDED BY LIVING GREEN WALLS FOR ATMOSPHERIC POLLUTANTS REMOVAL	Environment



## SOCIAL SCIENCES (Sociology, Linguistic, Psychology)

No n/n	Time of presentation	Country	Name of participant, School, Grade	Title of project	Category
<b>April, 16 from 4.00 p.m. to 6.00 p.m. (MSK, GMT+3)</b>					
60.	<b>4.05 p.m.</b> presentation – 7-10 min Q&A – 5 min	Indonesia	Novi Indah PRIHATININGSIH Rizal Saputra State Vocational High School 1, last year	“SAJEN” ANALYTICAL STUDIES OF OFFERINGS CULTURE AS AGRICULTURAL SYSTEM IN THE PAST	Sociology
61.	<b>4.20 p.m.</b> presentation – 7-10 min Q&A – 5 min	Switzerland	Anusha SPESCHA Swiss Federal Institute of Technology, 2 year	MADMEN ON A JOURNEY: A COMPARISON OF HOMER'S ODYSSEY AND THE SCIENCE FICTION SERIES DOCTOR WHO	Linguistics
62.	<b>4.35 p.m.</b> presentation – 7-10 min Q&A – 5 min	Serbia	Viktorija JOVANOVICH Gymnasium Lebane, 4 grade	EXAMINING THE SHARE OF EXECUTIVE FUNCTION SHIFTING DURING LYING	Psychology