



Award List of Global Youth Science and Technology Bowl (GYSTB) 2020

Physics and Engineering

| Awards | Team No. | Project Title | Country |
|--------------------------------------|----------|---|----------------------|
| Grand Prize: Gold Award | IAPE54 | The Microplastic Filter - A Small Solution to a Global Problem | Ireland |
| Grand Prize: Silver Award | IAPE17 | Hibla: An Alternative Sound Absorption Material | Philippines |
| Grand Prize: Bronze Award | HAPE01 | A.I. CAME | Hong Kong |
| Grand Prize: Bronze Award | IAPE36 | Voice Control Wheelchair | South Africa |
| First Prize | IAPE43 | Graphene & Sludge Water Purification System | Macau |
| First Prize | IAPE11 | "METLA" - UAV (unmanned aerial vehicles) Universal Training Complex | Ukraine |
| First Prize | IAPE14 | Produce Electricity with Wind Pressure Made by Piezoelectric Materials | Turkmenistan |
| Second Prize | IAPE01 | Use of Condensed Molasses Solubles as a Concrete Admixture | Turkmenistan |
| Second Prize | IAPE39 | Medicine Tracker Device for Improving Medication Adherence | Qatar |
| Second Prize | IBPE04 | Biol: A Social, Economic and Environmental Alternative for Nuevo Leon | Mexico |
| Second Prize | IAPE08 | The Ultra-Drying Tunnel | South Africa |
| Second Prize | IAPE55 | Conversion of Rainwater to Electricity in Singapore's High-Rise Buildings | Singapore |
| Second Prize | IAPE50 | Inter-turn Short-circuits Fault Detector For Motor Rotor Winding | Macau |
| Third Prize | IAPE19 | Reinventing the Wheel: Development of a Novel Magnetic Motion Device for Omnidirectional Movement | Ireland |
| Third Prize | IBPE05 | Development of Composite Materials from Natural Rubber with Styrene-Butadiene Rubber and Coconut Husk to Apply as Neutron Particles and Gamma Rays Shields. | Thailand |
| Third Prize | IAPE20 | Athlete Sodium Tracker - AST | United Arab Emirates |

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| Third Prize | IAPE12 | Repair of Fatigue Cracking in Wood | South Africa |
| Third Prize | IAPE24 | Smart School Bus | Qatar |
| Third Prize | IAPE04 | The New Earthquake-Resistant Building Model In Tetrahedral Diamond Structure | Turkmenistan |
| Third Prize | IAPE53 | Smart Protector: An Innovative Face Shield With Ultrasonic Sensor for Elementary and Junior Student to Minimize COVID-19 Transmission | Indonesia |
| Third Prize | HAPE02 | E-care | Hong Kong |
| Third Prize | IAPE42 | Obtaining Electricity Using Cooling Water In Vehicles | Turkey |
| Third Prize | IAPE23 | The Effects of Anti Corrosion Material Coating on Carbon Steel based on Natural Inhibitors from Bentonite Clay with Matrix Epoxy Resin in Corrosive Mediums | Indonesia |
| Honourable Mention | IAPE45 | LED Car Guard Glove | South Africa |
| Honourable Mention | HAPE03 | Easy Go | Hong Kong |
| Honourable Mention | IAPE52 | Educational COVID-19 Snake and Ladder Digital Game | Indonesia |
| Honourable Mention | IAPE37 | Four Season Optimum Energy Generator Multifunctional Photovoltaic Panel | Turkey |
| Honourable Mention | IAPE09 | AI Fresh Station | Ukraine |
| Honourable Mention | IAPE29 | Helper Farmer | Macau |
| Honourable Mention | IAPE26 | Application of Thermoelectric Generators in Harvesting Solar Energy Using “sandwich” Method to Achieve Higher Overall Efficiency | Qatar |
| Honourable Mention | IAPE38 | “Together Stronger” Energy Support System | Turkey |
| Honourable Mention | IAPE44 | ProTech Wallet | Turkey |
| Honourable Mention | IAPE16 | Auto Thanks Mini Robot for a Better Environment (ATM) | Indonesia |
| Honourable Mention | IAPE34 | Portable Fridge (a helpful solution to cool foods and drinks in off-grid areas using a friendly portable fridge) | Qatar |
| Honourable Mention | IAPE10 | RoTaR | Ukraine |
| Honourable Mention | IAPE47 | Fresh Water Condenser from Seawater Using Direct Solar Energy | Vietnam |
| Honourable Mention | IBBC30 | Cleaning Oil Pollution in Oceans and Seas with the Smart Eye Method | Turkey |
| Honourable Mention | IBPE08 | Using Hydrogels for Agriculture and Flood Defense | Qatar |