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	<p>Electric Vehicles and the Rocky Road to Green Transportation Peter James, Lyra Electronics Ltd. Hybrid or all electric? What advantages? What are the problems? And what do we need to do to achieve "all electric" by 2040? Are there other power systems available?</p>		<p>Godiva Awakes, Cyclopedia and Humming Bird Project Roger Medwell MBE, Godiva Awakes working party Roger will describe this project to create this giant puppet and demonstrate the "cyclopedia" and the new Humming Bird.</p>	
<p>Bloodhound SSC Willy Goldsmidt, Bloodhound SSC Education Willy will outline the attempt to raise the world land speed record to 1000mph and show progress to date on this National educational project.</p>		<p>Energy storage and the problem of electric cars Graham Prebble Currently there are major problems with battery life but these may soon be solved. As the number of electric cars increases how will the National infrastructure cope with the demand for electricity? Finally, how will we pay for this?</p>		
	<p>A history of Robots Derrick Willer MBE When were robots first thought about, what is necessary to make a robot work, through yester-year's examples to today's applications.</p>		<p>A career In Engineering Marcell Batson-Warner An engineer having worked in cars, cans, cheese and cars again, Marcell is an engaging and amusing speaker who will enthral both girls and boys. She explains how engineering can be a rewarding, fun career.</p>	
<p>Ethical Issues for Connected & Autonomous Vehicles Dr. Paula Palade, Jaguar Land Rover Dr. Palade worked on a report commissioned by the European Commission for autonomous and connected driving looking at the ethical, societal, data security and privacy aspects that she hopes will influence EU legislation. Her presentations will outline the problems faced by AV systems and the possible consequences of the decisions made.</p>		<p>USA, Arctic and Indonesian Eclipses Mike Frost, Amateur Astronomer. Mike will intrigue pupils with descriptions of his recent travels to see eclipses of the sun in the far north, on the equator and USA. Mike has other presentations, www.mikefrost.info</p>		
	<p>Saving the Bees with Maths Dr. Martine Barons, University of Warwick There is much concern about declining insect populations and what this might mean for human food and survival. The pollinator system is part of an interconnected ecosystem, which we don't know completely. How is it possible to make good decisions with so much uncertainty? And how on earth can mathematics help? Dr Barons will demonstrate how we can combine data and information from different experts to ensure our insects survive and thrive.</p>		<p>Future Road Vehicles and their role in Intelligent Transport Systems Detect a red light or a pedestrian on a crossing, put on the brakes! Tim Edwards and/or Douglas Mearns. Research Engineers. Horiba-MIRA The Horiba-MIRA project to make road vehicles and road management systems talk to one another in order to improve safety, reduce hold-ups and improve fuel consumption. (Within 5 miles of Horiba-MIRA please)</p>	
<p>Graphic Design Michelle Abrahall, Graphic Designer, Illustrator & Copywriter Michelle will describe her career working with businesses of all areas, from accountants to self-published authors, showing examples of her work</p>		<p>F1 – Ordinary People Doing Extraordinary Things Steve Nevey, Chartered Engineer Steve was formerly with Red Bull Racing and has a wealth of interesting facts about advanced engineering for Formula 1 racing cars.</p>		
	<p>Model Engineering at its Best - Visit to Echills Wood Model Railway Wednesdays in June/July 2 hours our including a tour of the 1.5Km track, the engine sheds, workshops, etc. and a ride on one of the trains. Maximum 16 per school party. Kingsbury Water Park 10:45am. and 12:45pm. Please note that the school is responsible for transport and the car parking charge.</p>		<p>Blending behavioural science, computer science, data analytics, engineering, and business model innovation. Ganna Pogrebna, Professor of Behavioural Science at University of Birmingham Ganna will outline her work to help cities, businesses, charities, and individuals to better understand why they make decisions they make and how they can optimize their behaviour to achieve improved results.</p>	
<p>Track Safe Derrick Willer MBE Derrick leads the pupils to put together a bid for funding this implementation in Atlanta, Georgia USA. He also outlines the salaries that engineers and technicians can earn. Derrick has a presentation on his career that has taken him across the worlds.</p>		<p>The Anatomy of a Mobile 'Phone Peter Anderson, Chartered Electrical Engineer What is inside your mobile 'phone'? How are all these apps integrated? Internet presentation only using Zoom, Teams, etc</p>		
	<p>CERN and the Large Hadron Collider Prof David Evans, CERN and University of Birmingham Collide two protons together at almost the speed of light and what do you get. Sparks, Quarks, Whatever?</p>		<p>How We Won Fastest Car at F1 In Schools Abi Hiron and Eddie Hodierna Abi and Eddie were part of the team from WMG Academy For Young Engineers who won the UK Final and went on to win fastest car at the International Finals in Kuala Lumpur. The team had to engineer their car using CAD/CAM and also master CAFD to determine the drag on their car which reached 70mph in less than 1 second.</p>	
	<p>How To Win First® Lego® League Girls and Boys from Coundon Court School The team won the Midlands event in 2019 and competed in the UK final. They were invited to the global finals. They are happy to present their achievements to other schools.</p>			<p>A History OF Robots Marcell Batson-Warner When were robots first thought about, what is necessary to make a robot work, through yester-year's examples to today's applications.</p>
<p>Exo-Planets and the Search for Alien Life Thomas Killestine (End of Summer Term Only) Thomas will outline current methods of searching for life in our solar system and in others for earth like planets.. Thomas, age 21, won the Sir Patrick Moore</p>		<p>Effective Communication Yichan Cai, Management Consultant, FunKeyB Good communications are essential in almost all walks of life. But many are usually full of jargon that is unintelligible outside the particular work sector, nationality, religion or age. Yichan will try to debunk jargon and explain how to communicate clearly with others with different jobs or cultures.</p>	<p>Jack and Jill left for a wee break! Scotland ✓ England X</p>	
	<p>A History of Transport Derrick Willer MBE From Shanks's Pony to the modern transport – sea, land, air, space. the future?</p>		<p>Product Design Nicole Analise Cox, Intern Engineer, Siemens Nicole will describe life at university and how her internship at Siemens has helped her. Nicole works on exciting projects to do with the railway, and even how we can use data to predict the future.</p>	
	<p>Free yourself: become an engineer. Kim Everett, Powertrain Engineer, Aston Martin Lagonda Ltd. Kim will describe her education and career and the exciting world of Aston Martin Lagonda.</p>		<p>Tomorrow's Engineers Competition Girls from Coundon Court School The team that entered the finals of this competition at the Big Bang Fair 2018 after winning the local finals in Coventry They are happy to present their achievements to other local schools.</p>	
	<p>Spacecraft Are Robots Dave Eagle, Amateur Astronomer Dave will outline the way spacecraft have to work and also that they must have robotic control systems. The time taken for a signal from Earth to reach them means that the spacecraft must know exactly where it is and when to fire it's control thrusters to enable it to manoeuvre correctly. Dave also has a 6M dia. Planetarium for hire. Please see www.star-gazing.co.uk They have to make a small charge for the planetarium</p>			<p>Your future career is in your hands. But how to get there? Kelvin Lin, Graduated in Law and taught in a University but has now chosen to progress in a career of photography. Kelvin can advise on the education and career paths to follow for a successful career outcome.</p>
	<p>Being a Woman in a '@Man's World' – A Career in Engineering Lisa Cobble, Director Global Sales Operations, GE Digital and Exceed Coaching In 1995, there were not many girls leaving school to go into Engineering, Lisa was one of 2 in her company to start as an apprentice. Currently around 12% of all engineers are female in the UK. Discover what a career in Engineering can open up and take the opportunity to learn about how being "different" can be advantageous!</p>		<p>Engineering Your Career Derrick Willer MBE Outlining his career and an engineer which has taken him to many countries across the world, Derrick advises pupils on selecting a career based on their skills, the qualifications needed, the market place and possible salaries.</p>	
	<p>Women Engineering The Railway Vanessa Stanley, Siemens, York Vanessa outlines her route into engineering and describes her role with Siemens designing and delivering Protection & Control solutions to UK Rail systems and her roles as an IET Young Professional. Zoom or Teams presentation only because Vanessa lives in Yorkshire.</p>			<p>Art Design In The Transport Sector Dr. Aysar Ghassan Dr. Ghassan heads Coventry University's Automotive and Transport sector and his presentation brings Art-Design into the Engineering Sector. He describes his work and invites pupils to create their own designs.</p>
	<p>Flux-Dance Charlotte Hale-Smith, Stephanie Townsend Combining dance with science and robots. They have to make a small charge</p>			<p>Gaynor Sharpe and Linda Atherton Robot Activities Gaynor and Linda are qualified science teachers and volunteers with the Association of Science Educators. They bring robots for the pupils to build and control. They can also present on Women in Science</p>
	<p>March Of The Robots Simon and Lyn Proctor This presentation outlines the method of programming the toy robot. The Proctors can also bring Meccano robots for the pupils to code and "march". There is a small charge for bringing the robots</p>			<p>Frederick Lanchester – the unknown pioneer of UK aerospace. Dr. Caroline Lambert, Coventry University In 1892 Frederick Lanchester, whilst crossing the Atlantic, noticed the way herring gulls used up-currents of air to rise up without flapping their wings. He then began to study aviation</p>