



TELFORD AND IRONBRIDGE MECCANO SOCIETY

Meccanuity Model Report 2006

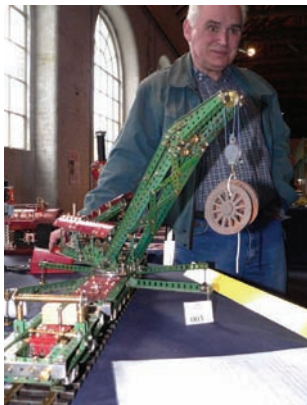
This Meccanuity we were truly blessed with a wide variety of activities, exhibitors, visitors, guests and models. Yet again TIMS has done itself proud, getting people interested in Meccano, and gaining members. Welcome to those who joined us there! On with the model report:

John Palmer had a Mack Truck with low loader, copied from Marklin instructions, and built in red and green complete with operational bonnet and steering. Next he had a Volvo truck unit, also built in red and green and a lorry from the Trucker Fleet of the 1980's.



JOHN PALMER'S MACK TRUCK

Terry Bullingham had a R/G Railway Recovery Crane, which is a representation of a typical steam powered heavy recovery crane (around 80 tons) of the latter half of the 19th century. Two such cranes would be used in tandem to deal with any jobs where the load would exceed 80 tons. He used a gauge-1 scale of 10 mm to the foot, which is quite small for the Meccano system, which brought about many constraints. However he has managed to include coil-spring suspension on the main unit and the match truck. The design includes a robust central bearing and four outriggers. Some details are yet to be added, but the model is very well produced so far.



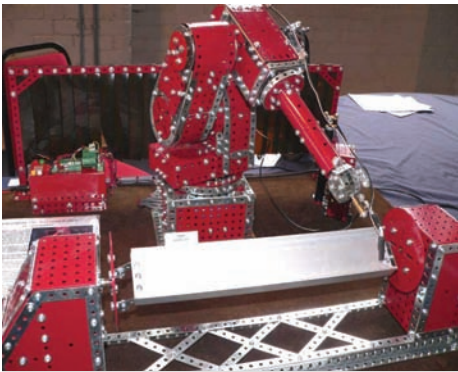
TERRY BULLINGHAM AND HIS RECOVERY CRANE

Dave Bradley had an impressive Australian Road Train which captivated many people. The three truck long radio controlled model which ran up and down the Meccanuity floor. Joining the road train were the two new radio controlled cars produced by Meccano with various electronic features including lights and sounds.



DAVE BRADLEY'S ROAD TRAIN

Dave Harvey had another large selection of models. The first of which was a freelance horizontal steam engine, with a separate horizontal coal fired boiler, water tank and double acting slide valve gear. It also includes a working governor and a bearing run crankshaft. Next he had a vertical steam engine, with a vertical boiler and a bolt on steering gear, water pump, slide valve, a double acting cylinder and a illuminated coal firebox. Continuing he had an Arnfield Clock designed by Michael Adler, the grasshopper detached escapement clock is gravity powered with an electric rewind. Joining this was a Scenic Elevator, built as a Motorvator learning model, it runs between four floors with slowdown and pauses between stops. Another Motorvator model, the Industrial Welding Robot was also on show with 5 axis of movement, with an external 6th axis, and comes complete with an arc welder and simulated welding arc. Finally this excellent display was rounded off with a Diesel Generator taken from the NZFMM magazine, designed by Bruce Geange, and has a lighting stand to simulate a powered load. On the Sunday Dave also bought along a Savage No.4 inverted vertical steam engine, part of a new project Dave is developing and also a Sinclair Harding Navigation clock. (See Next Page).



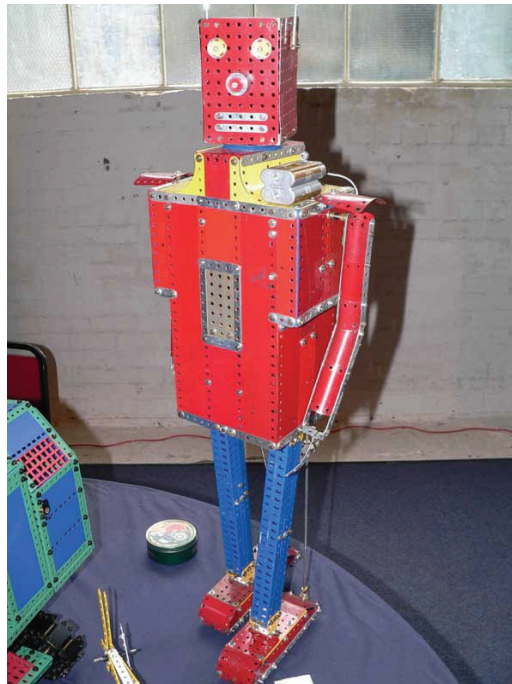
DAVE HARVEY'S ROBOT

Michael Threlfall had a pair of models, starting with a Ferris Wheel which was built from parts from Maplins and he uses it to show he small motors he sells. They have run reliably for two years without failure. Next he had a Motorvator Test Rig built to demonstrate a simple programme that can be written, installed onto a Motorvator and used to control a model. In this case he has a truck going up and down a metal track, the same process as a CNC machine virtually, just on a different scale.



MICHAEL THRELFALL'S WHEEL

A Marklin Excavator was on show by **Reg Hall**, built as per the manual, but will hopefully be motorised with a Motorvator, to enable it to go through the various motions. From the number 10 set plans, Reg had the walking robot , where the E15R has been replaced by a 6V motor with two 19:1 gearboxes. Accompanying was the delightful woodpecker model, a car from the number 4 Design Set, a cable controlled Excavator, a helicopter and a small model of a Dalek. Finally from the very new 'Speedplay' set he had another robot, which is 'quite fun for the youngsters' and has downloaded programs installed. It has been modified for reliability.



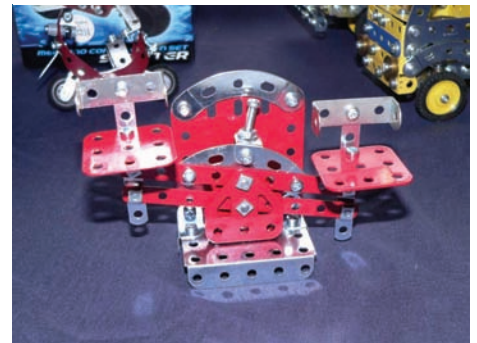
REG HALL'S ROBOT MAN

Luke Miller had a number of models from the 'Design Series', four in total, with one from each 'Design Series' set including a sports car, a helicopter, a motorbike and a motorised trike.



LUKE'S MODELS (LEFT)

Holly Antrobus had her neat set of Balancing scales built from plans from a 1978 set 1 and two pocket Meccano models, simple but excellent little models, which work very well.



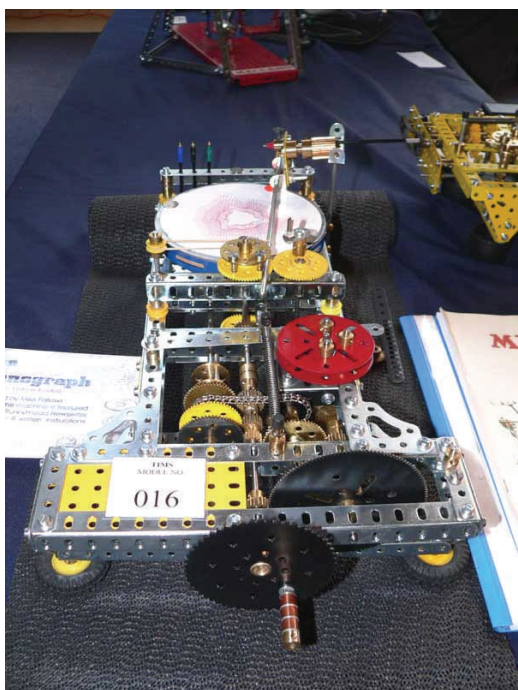
HOLLY'S SCALES

A variety of models were on display produced by **Robert Curling**. All of which were based on models described in March 1994 Constructor Quarterly, which were all originally constructed from no.6 sets. He has modified his Articulated Lorry, Breakdown lorry and Tipping Lorry so that they have wider cabs and added details which would not have been possible with the parts contained in the set. Joining the trucks were four small racing cars, a scooter, a microflight aircraft and a beach buggy from early and current single model sets.



ROB AND ANGELA CURLINGS BREAKDOWN TRUCK

Mike Fallows had a vast array of Meccanographs. The first of which was a 'T' – form Meccanograph designed by the late Andreas Konkoly. This model was constructed to feature in the Feb. 2006 issue of the Runnymede newsletter complete with constructional drawings in 'Isomec'. Next was a Lacegraph Meccanograph which was also designed by the late Andreas Konkoly which has been constructed in yellow mostly. The machine draws hairline zig-zag lines that transform into lace type patterns as seen on banknotes. Mike is currently producing 'Isomec' drawings. Joining these was a Meccano –'O' – graph, also by Andreas Konkoly but with building and design assistance from Les Nightingale. It can produce a series of ovals using the Gullioh arm or straight lines with the parallel arm. The following Meccanograph was described in Constructor Quarterly number 35 from March 1997, built by Les Nightingale and described by Keith Cameron. It has been modified for strength and more variations. Penultimately he had a Circlegraph which was constructed from a photograph of a machine designed and built by John brown. Finally to round off he had a Planetary Meccanograph designed by Keith Cameron a motion converter described in a Meccano Magazine in November 1972 was suggested as being useful for a Meccanograph. Much modification later and a few Marklin gears later the compact version was produced. A fascinating display.



MIKE FALLOWS' "T" FORM MECCANOGRAPH

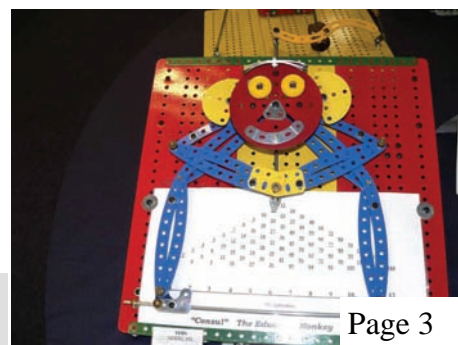
Rob and Wendy Miller had a Meccano magazine Jigsaw. It was produced in 1963 showing scenes from the cover of Meccano magazine from 1961 – 1963. The display shows the jigsaw and the cover pictures. Rob then also had two display windmills, which were factory models for use in shop displays, one of which was a single arm and the other was a double arm. Joining this was his 'Educated Monkey', which was designed by Graham Jost with a non-Meccano toy in 1916. It is possible for the monkey to multiply and add, with interchanging cards. The monkey's legs point to two numbers and the answer is read below his two interlinked hands. Finally Rob had four unicyclists, three of which were designed by Bernard Perrier, and one by Jean Max-Estere, but all of them unique.

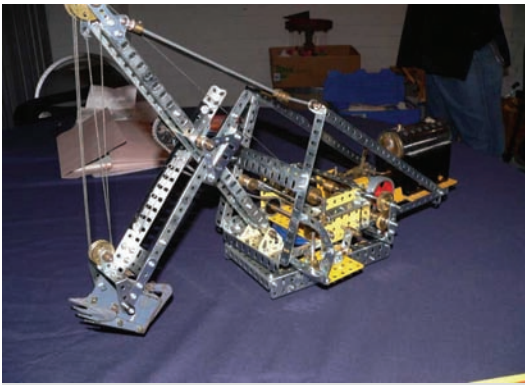
ROB AND WENDY MILLER'S EDUCATED MONKEY (RIGHT)

The Nightingale Family had an excellent display of models. **Les Nightingale Senior** had several models on show, the first of which was a freelance Dockyard Hammerhead Crane built in red and green. It contains four motors (for four movements), slew, travel, hoist and carriage. Joining this was the Mk2 'Del-boy's Van' which is radio controlled. Next came a Konkoly based Meccanograph which was operated by **Anne Nightingale** and a novelty Ping Pong Ball Machine using four chutes and a revolving turntable, with a central Archimedean screw lift transporting 12 ping pong balls. **Les Junior** had a three wheel Scammell 'Scarab' taken from a 1970's manual. Finally on show was Les's entrant for the Meccanuity Challenge walking competition, a very interesting stick insect, inspired by a NMMG magazine idea by Rob Mitchell



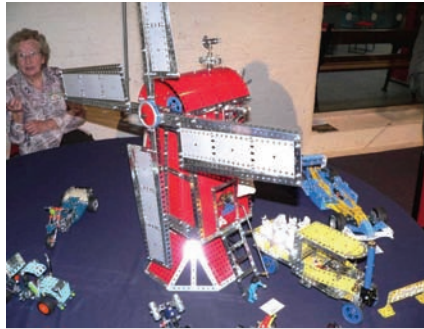
THE NIGHTINGALE FAMILY'S MODELS ANNE (TOP LEFT), LES JR. (ABOVE), LES SR. (Left)





IAN'S STEAM EXCAVATOR

Ian McCalla has a modified Steam Excavator, which is a modified version of Super-model 19A with a 1965 vintage steam engine, as opposed to the very rare and very expensive 1928 engine.



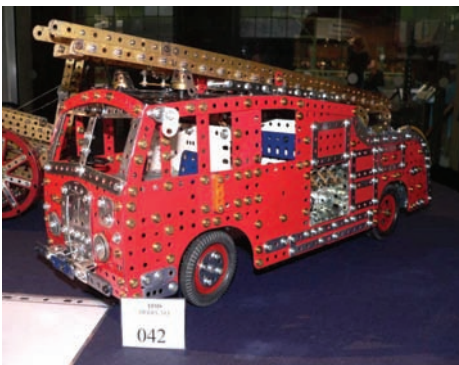
JOHN & JOAN'S WINDMILL

John and Joan Sleaford had a nice display of models, the first of which were a Dutch Windmill and a Steam Wagon. The windmill is built from the 1937 no. 9 book fitted with an electric motor and the sails are flexible plates from the Big Ben set. Along side was a Renault F1 car, as per the instructions and a Stealth Bomber built from the Evolution 6 book, using sprayed second hand parts. To finish John had a Mercedes Unimog, which was radio controlled and built from instructions in Constructor Quarterly number 69, as designed by Bernard Perrier.

Geoff Brown had a marvellous display, the most eye catching part of which was a Butters level Luffing Crane which Geoff had wanted to build for many years. Originally used at Odense shipyard in Denmark, the model was built from a photograph. The load in this case was the 'princess Royal' loco that Geoff built in 1962, which is complete with inside cylinders and is driven by a motor in the tender. By coincidence it is in the same scale as the crane. Along side this was a simple Hornby Layout, to run some recently acquired clockwork locos. Although practically lifeless before, a touch of oil and of Geoff's magic brought it to life once more, and happily went round the track. A really nostalgic display!



DENNIS BACKLER SHOWED US THIS SUPERB HORIZONTAL STEAM ENGINE "CAROLINE"



GEORGE ILLINGWORTH'S AMAZING DENNIS F12 FIRE ENGINE OF 1951

George Illingworth had a fine display of models, starting off with a Dennis N Type Fire Engine. It is fitted with a 50 ft escape and is built to a scale of 1:12. It is typical of a 1920's fire engine, including spoked wheels, solid tyres, polished brass, turbine pump and working steering. For its time it was a very advanced machine. Next he had a Dennis 30 CWT Fire Engine fitted with a 30 foot ladder and a Dennis number two pump, which was introduced as an economy model in the early 1930's. It was based on the body of the N type, but with a lower chassis and pneumatic tyres. To finish George had a Dennis F12 Pump, which can carry either a 35 foot ladder or a pump, or a 50 foot escape as a pump escape. The chassis is a post-war fire engine, and the model has working steering and a reproduction of the pump fitting and interior detail. A very accurate and well built model



GEOFF BROWN DISCUSSING HIS EXCELLENT DISPLAY

The Way Family had quite a variety of models on display. **Stephen Way** had his D10R bulldozer, which is nearing completion. Although the mechanism is fully installed, the movement is somewhat jerky at the moment, and is not quite reliable enough for exhibition running, as several attempts soon showed. Joining these were four pocket models. **Keith Way** had a range of ten Steam Wagons, from one inch long to a large Naylor model. The layout showed the differences in the arrangements of the Naylor, Foden, Sentinel and Yorkshire Steam Wagon companies. Next he had the 'Titan' tractor, built in the USA from 1915 – 1920 which were essentially a hybrid of a steam tractor combined with an internal combustion engine. The model is powered by a VCR motor, which drives the back wheels with a differential and the drive pulleys. He had a beam engine as well modelled on the engine out in the Enniguty exhibition, originally built in 1830. Finally from Keith there was a Fowler LR Class Showman's Engine, built to plans which were successions to the number 22 Supermodel plans. It features a (non operational) dynamo and a rear wheel winding drum. The motor is linked to a two speed gear selection option. **Janet Way** added yet more models to the display, with a Tractor and Potato Harvester built from plan 10.1 with some minor modifications, followed by an entertaining model of Rowers, built from 1973 plans, bringing smiles to many people. Lastly Janet had a Breakdown truck from a 1978 number 5 set.



SOME OF STEPHEN, JANET AND KEITH'S SUPERB MODELS!

David Lacy had his midland Red 515 D.P Bus, which has a roof and a few seats added since last time. Due to the additional weight the front suspension has been strengthened. Future work will see the fitting of a four speed and reverse gearbox and clutch. Eventually the roof will be sprayed black as per the prototype, which indicated that the bus could be used as a coach.



DAVID LACY'S MIDLAND RED 515

A Road Surfacing Machine was the first of three models on show by **Dennis Remnant**, which is from the 1954 number 10 set. It is a non-working display-only model. Next a quite interesting model, the 'Rainbow Discs' which is featured in the June 1959 Meccano Magazine. Three discs separated into primary colours rotate in such a way that the colours merge and form moving rainbow-like rings. Finally he had a fascinating mechanism, an Oscillatory Epicyclic Movement which was in the 1960 Meccano Magazine and comprises of an arrangement of pinions and bush wheels which form an oscillating output



DENNIS REMNANT'S ROAD SURFACE MACHINE

Paul Hubbard had two models, the first of which was an American Ferris wheel built from a Modelplan but with alterations to change the base to fit the motor. The ride works off a gear box and chain drive and has two wheels attached to a boom. Secondly he had a warehouse lift from the Supermodel leaflet. It has three floors and a working lift when finished. Paul may extend the model to include a full size factory and a steam engine. The model is about a foot by a foot by three feet.



PAUL HUBBARD

Tony Clapperton, had several models, the first of which was the Tower Crane, which is an old favourite based on a Philip Webb Design, then he had a freelance design Traction Engine which was a Showman's engine, however the workings are more clearly visible without the roof. Joining these was a bulldozer based on Keith Cameron's design, as described in Modelplan 57. Finally Tony had a Horse and Chariot, built from instructions around 30 years ago, approximately forty pounds worth in today's parts.



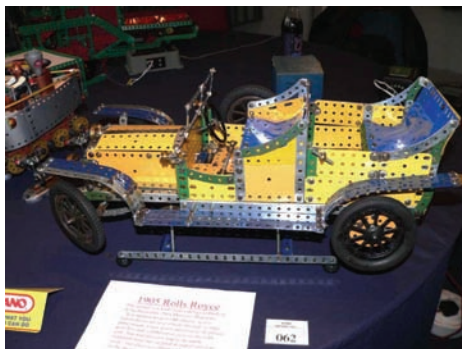
TONY'S FREELANCE TRACTION ENGINE

Roger Marriott had the 'Wizard' model, where a magician makes his son disappear and reappear. It's made from blue and gold Meccano, and the eyes (and nose!) light up as his wand rises and falls.



ROGER'S WIZARD

Hugh Jenkins had a display of the 'Crazy Inventors' models which comprised of 'The Bat', 'The Boat' and a car. Next he had a 1905 Rolls Royce Car built from a design published in the December 1964 Meccano Magazine. It is fitted with an E20R motor driving the rear wheels through a single plate clutch and a two speed and reverse gearbox through a differential on the back axle. The transmission is completely rebuilt from the original design, and the chassis is fitted with a brake, acting on the engine flywheel, however Hugh says it is 'totally ineffective!'



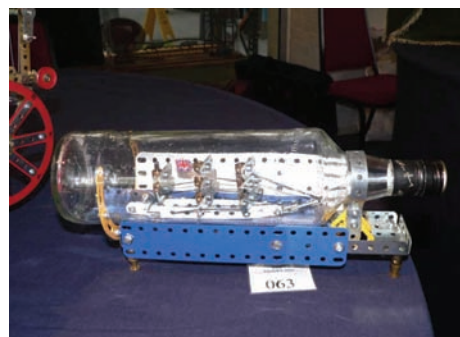
HUGH JENKINS' 1905 ROLLS ROYCE

Chris Copp had three intriguing walking models, the first of which walks in a circle that is roughly two feet, while powering a head and arm movement powered by a car window winder motor. Next he had a Long Crawler, based on the dragline crane principle, which he submitted in the Meccanuity Challenge on the Sunday. Finally he had a modified shorter crawler, with skid correct for left hand turning, which was also entered into the Sunday Meccanuity Challenge



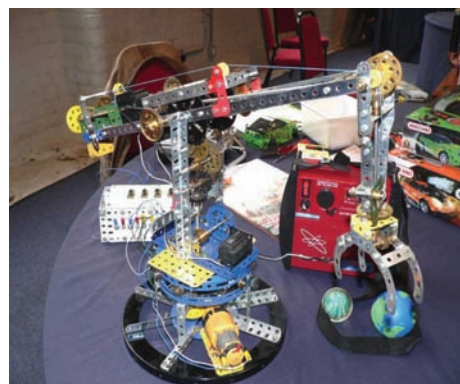
CHRIS COPP'S ROBOT

Tony Homden had the fascinating Meccano ship in a bottle. In this instance Tony had chosen to use a whisky bottle, a vital component! A very original and intriguing model.



TONY HOMDEN'S AMAZING SHIP IN A BOTTLE

John Evans had a simple robot built from a Peter Matthews ModelPlan, which has several axis and is driven by four 6 volt motors and a Power-drive unit



JOHN EVANS' SIMPLE BUT VERY WATCHABLE ROBOT WAS CONTROLLED FROM A COMPLICATED MANUAL PENDANT UNIT!

Joining us, and presenting some excellent lectures was **Philip Webb**. As well as being kind enough to talk to us, he also brought a good display and variety of models with him. Firstly a 'Nodding Donkey' oil well engine, a freelance model on one featured in Model Engineer roughly 20 years ago. It's built in red and green and powered by an electric motor. Next he had a rarity, a Meccano sphere! It's based on the hexagon – pentagon principle developed by American architect Buckminster Fuller, the model shows how to create a sphere from strips. Alongside was a WW2 tank, of no particular variety designed by Bert Love from the Meccano Magazine. Next he had some very neat models of a Wabeo Dumper Truck and a pair of Kenworth Tractors. The dumper truck is based around the large wheels with teeth on the inside. There are various details included, such as the suspension, working differential, double thickness body and railings. The sense of scale is enhanced by the two low loaders used to move the giant dumper truck. Philip had bought a Meccano motorbike outfit, however he modified it to look more like a Kawasaki Ninja. The radiator, engine block, steering and upholstered 'King and queen' seats are a few of the many details added. Another bike was a Harley Davidson Electraglide, inspired by a Constructo Kit, but is almost Meccano, and is as excellently detailed and distinct as the Ninja. The third in the series of bikes was a Chopper Trike, which also began as a Meccano kit, but again with much modification, which has another wide array of accurate details added to it. To round off this great display he had a power boat which was a commissioned model, with a streamlined finish and a red/silver/white colour scheme.



PHILIP WEBB'S NODDING DONKEY PUMP

PHILIP WEBB GAVE US SOME FASCINATING LECTURES ON THE TECHNIQUES OF MECCANO COMPUTER AIDED DRAWING, WITH FULL PROFESSIONAL EQUIPMENT CURTESY OF ENGINUITY ! (RIGHT)



Finally thanks to the following people who did not show models, but contributed in other ways to making Meccanuity 06 a great event.

Thanks go to **Dave and Marilyn Taylor**, our resident dealers giving us a chance to buy from probably the best selection of spares known to any Meccanoman!

Thanks also must be given to **Mary Linder and Joan Clapperton** for all their hard work in the TIMS catering department. We must have had the best selection of consumable goodies ever!

Wendy Miller must also be given a big TIMS thank you for looking after so many young, interested children and a few parents too, in the Childrens modelling corner. Wendy had masses of Meccano for the visiting public to try their hand at. Many interesting models were made over the weekend, and more importantly, so many chil-



CUSTOMERS BUSY HAGGLING DAVE TAYLOR FOR ANOTHER GOOD DEAL! (LEFT)

TIMS MEMBERS KEITH WAY AND ROB CURLING ON DUTY AT THE TIMS INFORMATION DESK ! (RIGHT)

