

# Institute *of* **Physics**

LONDON AND SOUTH EASTERN BRANCH REMS SECTION

**THAMES WATER – MOGDEN SEWERAGE TREATMENT  
And WALTON WATER TREATMENT**

**Please note early start**

**THURSDAY 19 March 2009**

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This visit has been organised by George Freeman.

Last year Phil Renton told us about the supply of water in the Thames Valley by Thames Water and other companies. We now have a chance to see how water is purified for drinking and how waste is treated before it is returned to the river.

At the Mogden Treatment Works we will see how waste is treated; the liquid separated from the solids and how the reduction of the biological oxygen demand and turbidity to river standards is achieved. The solids are fermented to produce methane for the electricity generators and the, now sterile, solids sold as a fertiliser. Our guide will be Barry Wyeth.

At Walton, Phil will be out guide and we will see how the water is chlorinated, the suspended particles removed and the use of turbidity meters at the other end of their scales to check on clarity. Some possible contaminants are continuously monitored, others daily and others once a month. Walton is also one of their research stations so we might see some of the latest ideas in water treatment.

**MEET** at Twickenham Station platform 4. Coffee and toilets.

**LUNCH** We will travel by coach to the Weir Hotel on the Riverside near Walton. Pub grub and draft beers. After lunch the coach will take us the mile back to the Walton Works.

## **PROGRAMME**

10.15 Assemble Twickenham Station

10.45 Walk to Mogden

11.00 Tour

13.00 Coach to the Weir Hotel, Walton

13.30 Lunch

14.30 Coach to Treatment works

14.45 Introduction and tour, possibly in 2 groups

17.00 or before. Coach back to Twickenham station.

**NO LATE JOINERS** Phone me if you will be a few minutes late to find where we are. Turn right out of the station, fork left and walk north for one mile crossing the A316 and passing the RFU stadium. We must all arrive in one party at Mogden Security.

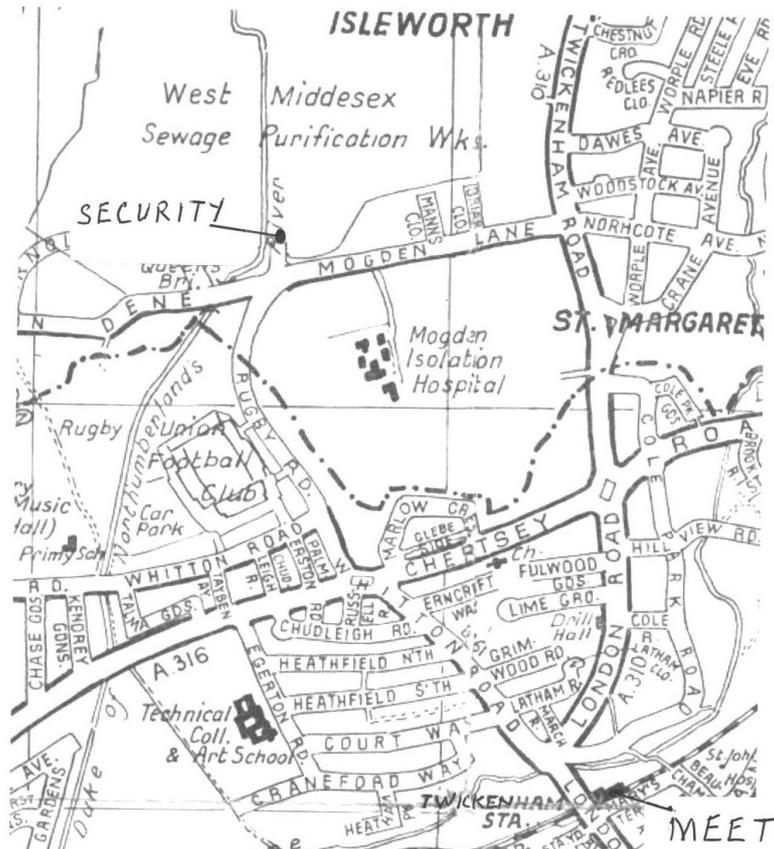
**COSTS** £15 each + refreshments at cost for a maximum 20 people, minimum 10.

**CLOTHING** We will spend most of our time in the open so please dress according to the weather. We will probably be walking on grids so flat heels please.

## CONTACTS

Before the meeting. Reinalt Vaughan-Williams [reinalt@physics.org](mailto:reinalt@physics.org) 020 8946 3399 and 07758 085741

On morning of visit. George Freeman 07941 916 944



**PLEASE READ THE FOLLOWING.** I have to sign a disclaimer to this effect. This is for Mogden but the Walton one will be similar.

### DANGER

This is an operational works where you may see deep tanks or lagoons containing water undergoing treatment, working plant and machinery, high voltage electrical equipment, gas holders containing dangerous gases and mobile plant and vehicles. As with many industrial concerns, dangers can arise for the unwary or those unfamiliar with the plant. To avoid accidents please follow these simple common sense rules.

1. **DO NOT STRAY** keep with your party, follow the paths or roadways and obey the instructions given by your guide.
2. **DO NOT** press any button or operate switches or levers or set in motion or stop any plant or machinery. Some machinery is automatic and may start up without warning.
3. **DO NOT SMOKE** or use matches or lighters on any part of the works.
4. **BE PARTICULARLY CAREFUL** when near open tanks or channels or near sludge which is drying as it often has the appearance of being solid - although it is not.
5. **LADDERS AND STAIRWAYS** especially those outside buildings may be wet and slippery and should be used with caution.
6. **REMEMBER** that vehicles and mobile plant may be using the roadways. Whether walking or driving in the works, observe the Highway Code as you should on the public highway.

## CONTACTS and COSTS

Not for publication

### CONTACTS

George Freeman 020 – 8979 1271 [george.freeman@physics.org](mailto:george.freeman@physics.org)

Mogden – Toni Aufiero TW7 7LR  
020 – 7713 3500 07747 641 760  
[Toni.aufiero@thameswater.co.uk](mailto:Toni.aufiero@thameswater.co.uk)

Walton - Phil Renton KT12 2EG  
020 – 7713 8393 07747 642 262  
[Phil.renton@thameswater.co.uk](mailto:Phil.renton@thameswater.co.uk)

The Weir, Waterside Drive, Walton, KT12 2JB  
01932 784 530

### COSTS

Hersham Minibuses KT12 5NE  
22 seater £180 If 15 takers then £12 each  
16 seater £150 If 12 takers then £13 each  
But some doubt about these prices at 14-11-08.  
077 899 55228  
01932 226 708

Sunbury Coaches  
24 seater £229 If 15 takers then £15 each.  
01932 785 153 reference 131108

Coach timing  
12.45 wait at Mogden TW7 7LR  
Journey to The Weir Hotel KT12 2JB  
If possible wait at the Weir over lunch  
14.00 Journey to Walton Water (1 mile) KT12 2EG  
16.30 Wait at Walton Water.  
16.30 Journey to Twickenham Station