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Meeting	Title	Author	Organisation
Spring No1	02-Apr-85 & 24-Apr-85 London ICE & Newcastle University		
	Recent Amendments to the WASSP Package	Dr. R. K. Price	HR
	Questions and Answers on the Wallingford Procedure	Dr. R. K. Price D. Williams, A. R. Eadon and K. F. Gardner	HR WRc and Severn Trent Water Authority HQ
	Objectives and Role of WaPUG	Dr. D. J. Balmforth	Sheffield Polytechnic
	Graphical Enhancements for WASSP		
	Use of Moss Package for Network Plots	A. R. Eadon	STWA
	Use and Interpretation of Hydrograph Plots	G. A. Burrow	Southern Water Authority
	WASSP and Digital Mapping- Future possibilities	N. Cullen	WRc
Autumn No1	05-Nov-85 Birmingham City Council		
	The Buxton Case Study	D. R. Dring	Severn Trent Water
	Experience with Storm Overflows	R. Chaplin	Doncaster M.B.C
	Sewerage Rehabilitation using WASSP	D. I. Aikman & N. A. Kent	Babtie Shaw & Morton
	Benefit/Cost appraisal of WASSP Solutions	M. Leafe	Anglian Water HQ
	Minimum Flow Survey Networks	R. M. Ashley & C. Jeffries	Dundee College of Technology
	Future Developments in Instrumentation	M. J. Green	WRc Engineering
	User Requirements for Processing Flow Survey Data	M. J. Green	WRc Engineering
	Problems with percentage Run-off Factors	N. R. Orman	Rochdale M.B.C
	Rainfall losses in urban Catchments	Dr. C. J. Pratt	Trent Polytechnic
	Management of Data for Partially Separate Systems	A. R. Eadon	Severn Trent Water Authority HQ
	Sewer System Pipe Referencing	B. Wilkinson	Yorkshire Water Authority HQ

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	Time Series Rainfall	R. J. Henderson	WRc Engineering
	Spatial Analysis of Storms using Weather Radar	I. Cluckie	Birmingham University
	Water Quality Modelling with WASSP	R. J. Henderson	WRc Engineering
	MicroWASSP	Dr. R. K. Price	HRL
	HRL Maintenance a User Viewpoint	G. A. Burrow	Southern Water Authority
	Development, Testing and Maintenance	Dr. R. K. Price	HRL
Spring No2	24-Apr-86 06-May-86 Bristol & Manchester City Council		
	Network Simplification	B. B. Nussey	Sheffield Polytechnic
	Design Choice of Catchment Wetness	Dr. J. C. Packman	Institute of Hydrology
	User of Rainfall Data from Flow Surveys	M. N. Gooch	Southern Water Authority
	Computerised Data Base Management	Dr. D. J. Bolland	Wessex Water
	Committee Member Questions		
	General Discussion		
Autumn No2	06-Nov-86 Glasgow Strathclyde Regional Council		
	Hydraulic Design for Sewer Rehabilitation	A. R. Eadon	Severn Trent Water Authority HQ
	The Lyneburn Case Study	W. K. Au Yeung	Dundee College of Technology
	The Borehamwood Case Study	N. R. Harding	Hertsmere Borough Council
	Use of WASSP to Assess the Effect of High River Levels	R. H. Falconer & J. N. Cooper	Babtie Shaw & Morton
	Getting the Most Out of WASSP	P. Deakin	Northumbrian Water Authority
	Bolton Central Area Model Verification	G. C. Catterson	North West Water Authority
	Application of Time Series Rainfall to Bolton Study	P. Wildbore	WRc Engineering
	The Dangers of Force Fitting	G. J. Stickler	WRc Engineering
	Aims and Objectives of WaPUG	Dr. D.J.Balmforth	Sheffield City Polytechnic
	Submitted Contributions and Discussion		
Spring No3	30-Apr-87 & 15-May-87 Leeds University & ICE London		

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	Limitations of WASSP	M. P. Osborne	HRL
	Spatial Variation of Rainfall (London Meeting only)	O. Lennard	Howard Humphries
	The Leicester Study	P. Shelton	Severn Trent Water Authority HQ
	Storage Compensation in Simplified Catchments	R. Chapman	WRc
	The Modelling of Hydro Brake Flow Controls on WASSP	R. P. M. Smisson	Hydro Research and Development Ltd.
	Tide Locked Surface Water Systems	Dr. T. G. Hughes	University College Cardiff
	User Problems and General Discussion		
	Open Discussions on WaPUG		
Autumn No3	11-Nov-87 to 13-Nov-87 Blackpool		
	<i>Technical Session 1-R and D and the Wallingford Procedure</i>		
	WRc Perspective	I. Clifford	
	HRL Perspective	Dr. R. K. Price	HRL
	<i>Technical Session 2- Application of the Wallingford Procedure</i>		
	Modelling of Rainfall inputs to Storm Sewer Systems	Prof. P. E. O'Connell	University of Newcastle Upon Tyne
	Bolton River Water Quality Case Study	W. Lomax & A. Parkinson	Bolton MBC & North West Water Authority
	<i>Technical Session 3- Users Open Session</i>		
	London Docklands Study	R. Allitt	Trevor Crocker & Partners
	The Dundee Gates	M. Goodison	
	Modelling Reverse Flow through an Overflow	R. Chaplin	Doncaster MBC
	Contractors Flow Survey Data and Gurvil	P. Barraclough	Chesterfield BC
	Design Criteria for Sewerage Rehabilitation	A Gardiner & A. R. Eadon	Birmingham University & Severn Trent Water
	<i>Session 4-Workshops</i>		
	Simplification summary	B. B. Nussey	Sheffield Polytechnic
	Verification summary	R. Chapman	WRc
	Modelling Ancillaries	Dr. D. Balmforth	Sheffield Polytechnic
	Rainfall and Hydrology	J. Packman	Institute of Hydrology

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	Planning and Resource for gathering input Data	P. Telford	
	<i>Technical Session 5-Planning</i>		
	Blackpool Case Study	R. Chapman & S. Rasaratnum	WRc & North West Water
	SERPES - An Alternative Approach to Sewerage Rehabilitation Planning	J. Wood & Dr. C. Hornsby	University of Surrey
Spring No 4	05-May-88 & 18-May-88 HR Wallingford & Guild Hall Preston		
	Modelling Low Side Weirs	Dr. D. J. Balmforth	Sheffield Polytechnic
	Wem Drainage Area Study	A. R. Stephens	Nuneaton & Bedworth BC
	New Hydrological Model for WALLRUS	M. P. Osborne	HRL
	Taunton Drainage Area Study	M. C. Leafe	Haiste Group
	Alternative Methods of Area Data Collection	G. J. Stickler	WRc Engineering
	Coping with Spatial Variation of Rainfall in the Western Pennines	J. R. Blanksby	Oldham MBC
	WaPUG Forum		
Autumn No 4	09-Nov-88 to 11-Nov-88 Bournemouth		
	<i>Technical Session 1</i>		
	Wallingford Procedure - R and D	M. P. Osborne & I. T. Clifford	HRL & WRc Engineering
	Time Series Rainfall Recent Case Studies & Research Developments	R. J. Henderson & C. Jefferies	WRc Engineering & Dundee Institute of Technology
	MOSQUITO I a Parasitic Urban Quality Model	G. Moys, R. J. Henderson & J. Payne	HRL, WRc & HRL
	<i>Technical Session 2</i>		
	Overseas Application of the Wallingford Procedure	D. C. Beale	Howard Humphries & Partners
	Switching-On' of Contributory Services (Borehamwood)	N. Harding	Hertsmere Drainage Consultancy Services
	Accuracy of Flow Surveys	K. McGregor	Hydroscan Ltd.
	<i>Workshop Sessions</i>		
	Model Verification	R. Chapman	WRc Engineering
	Modelling Ancillary Structures	Dr. D. J. Balmforth	Sheffield City Polytechnic
	Level Affected Outfalls	M. P. Osborne	HRL

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	Area-Data Input and Mini Paper	A. R. Eadon & D. Dring	Severn Trent Water
	Manuals and Training	Dr. R. K. Price	HRL
	<i>Technical Session 3</i>		
	The Albany Tank Sewer	R. C. Allitt	Trevor Crocker & Partners
	Practical Aspects of Tank Sewers in WASSP Sim (Derby)	R. Long	Scott Wilson Kirkpatrick & Partners
	Micro WASSP Data Files-Creation and Edit Outside the MicroWASSP Package	F. K. Broom & P. A. Brettell	Birmingham City Council
	WaPUG Forum		
Spring No 5	11-Apr-89 & 21-Apr-89 Huntingdon & Stoke-on-Trent		
	The Brighthouse Study	I. Saxilby	Husband & Company
	The Long Eaton Study (Modelling Extensive Siltation)	M. G. Farley & G. T. Webb	Erewash Borough Council
	Software Development for Tide Locked Outfalls	M. P. Osborne	HRL
	WALLRUS/WASSP Comparison	N. R. Orman	WRc
	Area Data Recommendations	R. Chapman	WRc
	Towards an Improved Surface Run - off Model	J. C. Packman	Institute of Hydrology
	WaPUG Forum		
Autumn No5	16-Nov-89 Scarborough		
	<i>Technical Session 1</i>		
	Control of Urban Run-off and Sediment Removal Studies	W. O. Jenkins	CIRIA
	Development of Doppler Flow Monitoring for Large Diameter Sewers	D. Pinkard	WRc
	Modelling Free Surface Backwater Effects in WALLRUS	Dr. R. K. Price	HRL
	<i>Technical Session 2</i>		
	WALLRUS on the Sun Workstation	J. Dickinson	Welsh Water
	A Comparison of WALRUS-SIM Version 1.2 with WASSP-SIM	N. R. Orman	WRc
	WALLRUS Version 1.2 Beta Trials	D. M. Delaplace & A. J. Brown	HRL
	<i>Workshop Sessions</i>		
	Quality Assurance Related to Verification Flow Surveys	A. Taylor	Halcrow & Partners

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	Modelling Ancillary	Dr. D. J. Balmforth	Sheffield City Polytechnic
	Resources and Techniques for Connected Area Surveys	B. N. Luck	Southern Water
	Effectiveness and Accuracy of Model Verification Mini Paper	A. R. Eadon & N. Simmonds	Severn Trent Water & Consultant
	Maintenance of Vortex Regulators	A. Weedon	Thames Water ??
	<i>Technical Session 3</i>		
	Case Study-Modelling a Small Urban Catchment	T. Cootes	Sheffield City Polytechnic
	The Design of Replacement Sewers to Alleviate Flooding in Montrose	D. J. Blackwood & R. M. Ashley	Dundee Institute of Technology
	Chaos in WASSP	R. J. Marshall	Sheffield City Council
Spring No 6	24-Apr-90 & 27-Apr-90 Glasgow & Hertsmere		
	New Hydrology Model	J. C. Packman	Institute of Hydrology
	Development of MOSQUITO	J. T. Simm	North West Water
	Experience in the Use of MOSQUITO	A. P. Baldwin & C. J. Hutchings	HRL & WRc
	Laboratory Testing of Flow Regulators	P. N. Luu & H. Parsian	South Bank Polytechnic
	WaPUG Forum		
	Chellaston Drainage Area Study-Case Study	R. J. Long & C. J. B. Ramler	Scott Wilson Kirkpatrick
	Manchester City Development of a WASSP/WALLRUS Macro Model	R. L. Garner	Wilde & Partners
Autumn No6	07-Nov-90 Blackpool		
	<i>Technical Session 1</i>		
	WaPUG Clinic		
	SPIDA Analysis of Looped Networks	M. P. Osborne	HRL
	Hydraulic Modelling in the 1990's	H. Day & N. R. Orman	WRc
	MOSQUITO-The Royton Experience	J. A. Payne & A. D. Parkinson	HRL & North West Water
	<i>Technical Session 2</i>		
	Simulating "Illegal Connections" to a Foul System	J. Bright	Borough of Poole
	Low Flow Verification	P. Deakin	Northumbrian Water
	Simulation of Dry Weather Flows in WALLRUS	R. Marshall	Sheffield CC

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	Mini Paper Session		
	The Calculation of Contributing Areas for Chalk Catchments	O. J. Leonard & D. C. Beale	Howard Humphries & Partners
	Modelling Eltham Road Pumping Station	R. Allitt	Trevor Crocker & Partners
	Two Stage Verification, Is it Necessary?	N. Simmonds	Consultant
	Using Annual Rainfall Time Series	I. G. Garside	WRc
	WALLRUS -VIS-Short Presentation	A. J. Brown	Wallingford Software
	Software Training the Future	G. Wooldridge	Wallingford Software
	<i>Workshop Sessions</i>		
	Verification	R. Chapman & R. Ambrosen	WRc & WessexWater
	Ancillaries	A. Brown	Wallingford Software
	Time Series Rainfall	A. Parkinson & I. G. Garside	North West Water & WRc
	WALLRUS	M. P. Osborne & N. R. Orman	HRL & WRc
Spring No 7	23-Apr-91 & 01-May-91 Doncaster & Bristol		
	WALLRUS Modelling for Use with MOSQUITO	J. A. Payne	HR Wallingford
	Consent Standards for Storm Sewage Overflows	Gerard Morris	NRA Yorkshire Region
	Drainage Area Planning Data Collection from Square One	P. P. Smith	Babtie Group
	Flow Monitors and Telemetry Performance For Real Time Control	D. Walters	M. W. Barber & Company
	Education and Training Review	G. Catterson & D. J. Balmforth	Scan Group & Sheffield City Polytechnic
	Towards a Code of Practice for Hydraulic Modelling	N. R. Orman	WRc
	WaPUG Forum		
Autumn No7	27-Nov-91 to 29-Nov-91 Blackpool		
	<i>Technical Session 1</i>		
	CIRIA Work on Urban Drainage	J. A. Payne	CIRIA
	Development of Real Time Control	S. J. Greenhalgh	North West Water
	Design for Storage Using Synthetic Rainfall	C. M. L. Rainey & M. P. Osborne	HRL
	<i>Technical Session 2</i>		

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	Rationalisation of Storage Requirements at Sewage Treatment Works Using Sewerage System Network Models	R. Y. G Andoh	Bingham Cotteral
	The Don Valley Intercepting Sewer	Richard Marshall	DBS-Sheffield City Council
	Work of the Urban Pollution Management Group - Rainfall Developments	John Threlfall	WRc
	<i>Workshop Session</i>		
	The Preparation of Verified Models for Design		
	Code of Practice for Modelling		
	Verification		
	Teach in on Modelling Low Side Weir Overflows		
	<i>Mini Paper Session</i>		
	Flow Monitoring in the USA	Jim Grandison	ADS
	Report of the Education and Training Group	Prof. D.J.Balmforth	Sheffield City Polytechnic
	The Use of Standard Software Packages for Data Manipulation	Bernard Welch	Wilde Allison Ltd
	Modelling Large Industrial Sewer Systems	J. R. Benn	Bullen & Partners
	Quality Assurance for Modelling Process- Use of Computer Software	Roy Parrish	CDR. Ltd
Spring No 8	28-Apr-92 & 30-Apr-92 Gloucester & Hartlepool		
	SPIDA - Weaving its Web	Dr. J. R. Wixcey & Dr. G. D. Moys	Wallingford Software & Integrated Hydro Systems
	Warning Messages, What are they for?	Andrew T. S. Walker	Wallingford Software
	Urban Pollution Management - Application Experience to date	Brian Wilkinson, Bob Crabtree & Chris Hutchings	Yorkshire Water WRc and WRc
	SFT Data Logger to Monitor Combined Sewer Overflows (CSO)	Michael Merrick	Solutions from Technology Ltd
	The Application of Low Cost Remote Sensing Techniques to Drainage Area Studies	P A R Scott	Scott Wilson Kirkpatrick
	Wallingford Software Developments	Dr. K R Price D Delaplace	Wallingford Software
Autumn No8	18-Nov-92 to 20-Nov-92		
	<i>Technical Session 1</i>		

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	The New Wallingford Runoff Model	M. P. Osborne	HRL
	The Long Reach Catchment Macro Model a Case Study	R. Allitt & D. C. Beale	DHV Burrow Crocker
	Drainage Area Planning in Italy	A. F. Davies	WRc
	<i>Technical Session 2</i>		
	SPIDA Applications Great and Small	N. P. Sanders	Babtie Shaw & Morton
	Stochastic Generation of Rainfall Time Series : A Case Study in Sewerage Rehabilitation	Paul S. P. Cowperthwait	Model Solutions
	Testing the Stochastic Rainfall Generator Model	J. L. Threlfall	WRc
	WALLRUS- CSO Compliance in Coastal Waters	M. C. Miller & M. Gibson	Wallace Evans
	<i>Workshop Sessions</i>		
	Short Term Flow Surveys	Gareth Catterson	IHS
	Resource Planning for DAP's	Brain Sharman	North West Water
	Data Handling and Manipulation	Andrew Walker & Ian Noble	Wallingford Software & Watson Hawksley
	Teach in on Modelling Low Side Weir Overflows	Prof. D. J. Balmforth	Sheffield Hallam University
	Mini Paper Session		
	Sewer Flooding Risk	N. R. Orman	WRc
	MOSQUITO Trials Buxton SMP Pilot Study	J. Allen	Severn Trent Water Ltd
	WSA/FWR Sewerage Working Group	B. E. Malem	Torbay Borough Council
	Training Specification Progress	Prof. D.J.Balmforth	Sheffield Hallam University
Training Day	08-Jan-93 Radcliffe House		
Spring No 9	05-May-93 Birmingham		
	Free-Surface Reverse Flows a Case Study	R. J. Long	Acer Engineering Ltd
	Tricks and Tips about SPIDA	R Armstrong	Montgomery Watson Ltd
	Maintaining "WALLRUS" Models	G Ciaffarafa and P Davies	Yorkshire Water Chesterfield BC
	Modelling Ancillaries	Prof. D Balmforth	Sheffield Hallam University
	Real Time Control	C. M. L. Rainey and M Lewy	Wallingford Software
	WaPUG Forum	A R Eadon	STW
	Flow Survey COP	G Catterson	IHS Ltd

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	Field Performance of Combined Sewer Overflows	C Jefferies	Dundee Institute of Technology
	Sewer Quality Modelling	A F. Davies & R. W. Crabtree	WRc
Autumn No 9	24-Nov-93 to 26-Nov-93 Blackpool		
	<i>Technical Session 1</i>		
	Modelling to Identify Potential DG5's	J. Blanksby & P. E. Myerscough	Wilde Allison Yorkshire Water Services
	Practical use of MOSQUITO	Robert Armstrong	Montgomery Watson
	Wastewater Quality Surveys Improving CSO Monitoring	Andy Drinkwater	WRc PLC
	<i>Technical Session 2</i>		
	Sprint Project SP.226 Real Time Control of Urban Drainage and Sewerage Systems Bolton Town Centre Telemetry Control System	B. J. Sharman & R. G. Tidswell	North West Water
	Modelling Complex Industrial Catchments Using the SPIDA Package	Andrew Baldwin	Integrated Hydro Systems Ltd
	Long Rainfall Record - Designing for Detention Storage	R. J. Long & M. P. Osborne	Acer Engineering Limited & Wallingford Software
	<i>Workshop Sessions</i>		
	Real Time Control	A. Baldwin, I. A. Noble & B. J. Sharman	IHS, Montgomery Watson & North West Water
	Flow Surveys	R. Ambrosen & G. Catterson	Wessex Water & IHS
	Water Quality Modelling	A. R. Eadon & M. P. Osborne	Severn Trent Water & Wallingford Software
	Ancillaries	J. Blanksby & A. J. Herbert	Wilde Allison & Travers Morgan
	<i>Technical Session 3</i>		
	Interrelationships Between Rivers and Sewers in Flood Alleviation	Peter Spencer	NRA - North West Region
	WALLRUS Urban River Model	Alan McNaughton	Bingham Cotterell
	A Realistic Approach to RTC	Jim Grandison	ADS Environmental Services
	Use of Soil Conservation Service Model	David Beale	DHV Burrow Crocker
Spring No 10	11-May-94 Birmingham		
	Technical History of the Wallingford Procedure	Roland K Price	Wallingford Software
	Bombay Storm Drainage Project	Ron Thomas	Montgomery Watson Ltd

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	SPIDA RTC in the USA	Stephen Chesterman	Acer Consultants Ltd
	The Newark Outfall	M G Farley	Mansfield District Council
	Quality Modelling - Applying UPM	J. R. Allen & R. W. Crabtree	Severn Trent Water Ltd & WRc PLC
	Pumping Station Monitoring, as Part of Short Term Flow Survey	R Henderson, A Bedi & N. Beaven	Wessex Water, Software & Training Ltd & Wessex Water
	Data in Urban Drainage Studies	Ian Garside	Montgomery Watson
	Application of the Modelling Code of Practice	Nick Orman & Richard Allitt	WRc PLC & DHV (UK) Ltd
Autumn No 10	23-Nov-94 to 25-Nov-94 Blackpool		
	<i>Technical Session 1 Modelling</i>		
	Why Are We Here	A. Taylor	Halcrow and Partners
	Case Studies Using Inherited Hydraulic Models	Graham Brine	Mott MacDonald Ltd.
	Infiltration and Dry Weather Flow Monitoring	R. J. Armstrong	Montgomery Watson
	Calibration and Accuracy of Sewer Flow Survey Monitors	I. A. Watt & C. Jefferies	University of Abertay
	Belfast Sewer Study	Ted Osborn & Andy Sharpe	Binnie & Partners
	<i>Technical Session 2 UPM</i>		
	Introduction to Session	J. Tyson	North West Water
	The Derby UPM Demonstration Project	R. Crabtree, W. Earp & P. Whalley	WRc, Severn Trent Water Ltd. & NRA
	Water Quality Modelling (Case Study)	T. Milner & N. Scarlett	Yorkshire Water Services & IHS
	Modelling a Total Catchment	P. Deakin & B. Crow	Entec Model Solutions
	Pollution from Highway and Surface Water Drainage Systems	J. A. Payne & M. P. Osborne	CIRIA & Reid Crowther
	<i>Workshop Sessions</i>		
	Workshop 1 Model Standardisation	N. R. Orman	WRc
	Asset / Model Data Format - Is There a Standard ?	Giuseppe Ciaffarafa	Yorkshire Water Services
	Workshop 2 UPM Case Studies - Practical Lessons	W. F. Earp	Severn Trent Water Ltd.
	Development of an Integrated Wastewater Management System for the City of Perth	M. Petrie & A. Jack	Tayside R. C. & University of Abertay
	Unit Hydrograph Methods in Conjunction with WALLRUS for Long - Term Simulation of Storm	Dr. R. Burrows & K. Mehmood	University of Liverpool

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	Overflow Operation		
	Workshop 3 Real Time Control	R. J. Long	Acer Consulting
	Simplification for Large Scale Modelling	R. FitzGerald & M. P. Osborne	Reid Crowther
	Workshop 4 Optimisation and Modelling	P. E. Myerscough	Yorkshire Water
	Potential Uses of Optimisation	P. Davies , A. Millerick & P.E. Myerscough	Chesterfield BC , Microdrainage & Yorkshire Water
	Micro Drainage as a DAS Tool in Yorkshire Water	N. R. Marples & R. J. Robinson	Chesterfield BC
	Sea Outfall at Withernsea - Analysis & Design UsingWASSP	P. Smith	Babtie Group Ltd
	<i>Technical Session 3 Real Time Control and Stormwater Management</i>		
	Real Time Control in The Hague	R. Allitt & Fons Nelen	DHV
	Birmingham Conurbation Rainfall Study	M. P. Osborne	Reid Crowther
	Portsmouth SPIDA Model - Development and Implementation of Real Time Control - A Case Study	Dan Wood	Mc Dowells Ltd.
	Bolton RTC - A Glimpse at the Future	R. G. Tidswell & W. D. Williams	North West Water & WRc
	Joint Management of Urban Runoff Quality and Combined Sewer Overflows	L. Roesner & C. Bristol	Scott WilsonCDM
	<i>Closing Session</i>		
	Sewerage - The Next 10 Years	I. Clifforde & Ron Chapman	WRc
	workshop Reports		
	WaPUG 10 Forum		
	Overview, Reminiscences, Reasons for Success, Users First	Dr. D. Wright	Applied Research Project Management Services
Spring No 11	03-May-95 Birmingham		
	<i>Opening Address</i>	B Walters	NRA
	DG5 An OFWAT Perspective	P Toothill	OFWAT
	Future Impact of UPM Methodology	Gerard Morris Katherine Howard	NRA
	Modelling The Impact of Storm Flows on Treatment Works Clarifier Performance	M Osborne	Reid Crowther

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	The Seattle System Real "Real Time Control"	Cello Vitasovic	Reid Crowther
	The Regulatory Implications of RTC for Urban Drainage Systems	R Freestone	NRA
	UPM Demonstration Project - Derby Update	R Crabtree	WRc
	Forecasting Thunderstorms For Urban Flood Warning	Prof C Collier	Met Office
	York Macro Model	R Chaplin	York City Council
	Update on Flow Survey Code Of Practice	N Scarlett	HIS
IMUG	22-Nov-95 Blackpool		
	<i>Session 1</i>		
	Opening Address	Johan Larsson	VBB Viak
	Storm Pollution Control in EU States	R Henderson	Wessex Water
	Modelling Melbourne Past Present and Future	Lucia Cade	Melbourne Water
	<i>Session 2</i>		
	Modelling Paris	Anton Lahoud	Safege
	New Approaches to Inflow/Infiltration Modelling	Lars Goran Gustafsson	Urban Hydroinformatics Centre
	Storm Water Monitoring	David Jeffrys	Green World Ltd
	<i>Workshops and Papers</i>		
	Workshop1 Modelling in Europe	Facilitators	R Price , B Neilson
	Workshop 2 Data Collection Techniques	Facilitators	A Lahoud, S Adam
	<i>Paper Session</i>		
	Real Time Control and Water Quality in Bilbao	I Noble	Montgomery Watson
	Water Quality Modelling for Ljubljana Master Plan	O Mark	DHI
	<i>Session 2</i>		
	Capabilities and Limitations of Sewer Flow Modelling	A Jack	Wastewater Technology Centre Dundee
	Integrated Modelling	I Clifforde	WRc
	Macro Benefits of Hydraulic Simulation of Sewer Systems	A Eadon	Haswells
	Parallel Design of Sewer Networks	Robert Metelka	HydroProject
		Robert Kuby	HydroInform

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Autumn No11	23-Nov-95 to 24-Nov-95 Blackpool		
	Opening Address	Brian Wilkinson	Yorkshire Water Services
	<i>Session 1 Urban Pollution Management</i>	Gerard Morris	NRA
	NRA perspective on Update of UPM Implementation and Progress on AMP2 Improvement Schemes	Session Chairman's Introduction	
	Defining the Need for UPM Appraisal and Scoping the Study Requirements	Geoff Madden	North West Water
	Options for Meeting Regulatory Requirements for CSO Discharges	David Balmforth and John Blanskby	Sheffield Hallam University
	Modelling of Beckton Sewage Treatment Works Catchment	Bob Armstrong	Montgomery Watson
	Meeting the AMP2 Moderate Amenity Standards	I G Garside/T M Kennedy	Montgomery Watson
	<i>Session 2</i>		
	Workshop1 UPM Discussion	Facilitator - Gerard Morris	NRA
	Workshop 2 R & D What should WaPUG be Promoting?	Facilitator - Nick Martin	Thames Water
	Workshop 3 Software Development	Facilitator - Andy Eadon	Haswells
	<i>Paper Session</i>		
	Meeting the Environment Protection Agencies Criteria for Separate Sewer Overflows	Tom Davies	Applied Geography Technologies, USA
	Monitoring and Modelling - A Question of Balance	Gareth Catterson	ADS
	Alternative Approach to Sewer Quality Modelling	K Gupta and Adrian Saul	Sheffield University
	<i>Session 3 Process Design</i>	Nick Orman	WRc
	Dynamic Modelling of Wastewater Treatment Process Using Stoat	B Chambers and J Dudley	WRc plc
	Active Trading Effluent Control (Case Study)	S Matthews, and D Parker	YWS and Hull CC
	Use of Modelling to Design a Hybrid Treatment Process for Biological Nutrient Removal	P Coleman/Brabinowitz/J Strickland	Reid Crowther and Anglian Water
	Sewage Treatment Works Modelling	P Deakin	Entec UK
	<i>Session 4 Workshop and Papers</i>		
	Workshop 1 Process Design Discussion	Facilitator - Nick Martin	WRc plc

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	Workshop 2 Education and Training What Does the Industry Need?	Facilitator - Richard Long	RLA
	<i>Session 5 Real Time Control Session</i>	Brian Sharman	NWW
	Methods of Assessment of RTC Systems	M Reeves	HIS
	Development of Consent Control on an Active Storm Management System	R Saxon	NRA
	RTC Modelling of Aberdeen Wastewater System	R Ashley and F Budge	University of Abertay and Halcrow
	The Use of RTC to Control Flows at Sandon Dock	C Brown, M Osborne	NWW and Reid Crowther
	Use of GIS for above-ground data management in Japan	Arata Ichikawa	University of Tokyo
Spring No 12	14-May-96 Birmingham		
	Opening Address	Andy Eadon	Charles Haswell & Partners
	<i>Session 1</i>	Chairman - Richard Long	RLA
	Recent experience of Source Control in Scotland	Bob Sargent	Scottish EPA
	Weather Radar - The Next Generation	Anthony Astbury	The Met Office
	Havering Drainage Area Plans - a case study	Jim Raymond and Dave Brend	Montgomery Watson and London Borough of Havering
	<i>Session 2</i>	Chairman - Nick Martin	Thames Water
	The Effect of Flow Splitting and Aeration on Treatment Works Modelling	Pat Coleman	Reid Crowther
	ISIS River Modelling Software	Jackie Maskell	HR
	<i>WaPUG Forum</i>	Chairman - Brian Sharman	NWW
	<i>Session 3</i>	Chairman - Neil Scarlett	HIS
	Urban Pollution Monitoring - Wastewater Sampling Strategy	Sean Adam	Green World Instruments
	Application of STORMPAC and SIMPOL for the City of Perth	David Wotherspoon, Mark Petrie and Bob Crabtree	Tayside Regional Council and WRC
	Water Quality Issues Associated with Large Detention Tanks	Tim Milner	McDowells Ltd
	Derby Sewerage Improvement Strategy - Using BATNEEC to Achieve the Final Solution	Andy Eadon and Alistair Moseley	Charles Haswell & Partners
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No 12	Blackpool		
	Opening Address	Brian Lewis	NWW
	<i>Paper Session 1 Combined Sewer Overflows</i>	Chairman -Richard Long	RLA
	An Irish Perspective on Storm Water Overflows and their Impact to Sensitive Waters	Gerry Galvin and Gerry O'Donaghue	DoE (Dublin)
	Comparing MOSQUITO and HydroWorks QSIM with the Measure Performance of an Actual CSO	G Edwards and C Roberts	Northumbrian Water and Entec UK
	CSO Performance Evaluation - Results of a Field Programme to Assess the Gross Solids Separation Performance of Various CSOs	Adrian Saul and Robert Harwood	University of Sheffield
	<i>Paper Session 2 Real Time Control</i>	Chairman - Wayne Earp	Severn Trent Water Ltd.
	Risk Management for Real Time Control in Urban Drainage Systems - What Happens if they Break Down?	Nicola Harding	CIRIA
	Analysis of the City of Lima RTC System - Using a State of the Art Hydraulic Computer Model	Clinton Cantrell	Montgomery Watson (USA)
	<i>Paper Session 3 Process</i>	Chairman - Gareth Catterson	GJC
	Aqualine - From Spring to Sewer - How the User Can Assess Information and Use of Keywords for Searching	Frances Powers	WRc
	Modelling of Dunnswood STW Using STOAT	Mark Smith and J Dudley	WRc
	Dry Weather Flow - Not Just a Number	Judy Payne	CIRIA
	<i>Paper Session 4 Urban Pollution Management</i>	Chairman - Roland Price	Wallingford Software
	Total Catchment Modelling - Cardiff Sewerage, Wastewater Treatment Works and Outfall	David Walton	Hyder Consulting
	River Impact Modelling - the Effects of Intermittent Discharges - Results From a Study on a 5 km River Reach	Ian Guymer	University of Sheffield
	River Sheaf and Don River Impact Modelling - Development of HydroWorks QSIM and MIKE 11	Mark Bottomley	Montgomery Watson

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	Models to Identify Critical Overflows in the Catchment		
	<i>Paper Session 5 Drainage Area Studies</i>	Chairman - Brian Sharman	NWW
	Drainage Area Studies 2 - DAS or not DAS2, DAS is the question	David Gordon	STW
	The Lower Liffey Valley Regional Sewerage Scheme	Brian Downes	P J Tobin & Partners
	<i>Workshop 1</i>		
	Modelling Software - View of Users	Facilitator - Andy Eadon	Charles Haswell & Partners
	<i>Workshop 2</i>		
	Accurate Measurements in Sewers	Facilitator - Nick Martin	Thames Water
	<i>Workshop 3</i>		
	Combined Sewer Overflows - the Latest Applications	Facilitator - David Balmforth	Sheffield Hallam University
	<i>Workshop 4</i>		
	Source Control	Facilitator - Nick Orman	WRc
Spring No 13	22-May-97 Birmingham		
	Opening Address	Chris Chubb	Environmental Agency
	<i>Session 1</i>	Chairperson - Sheila Sowerby	Environmental Agency
	The Black Country Trunk Sewer - HydroWorks TM QSIM made simple	Helen Udal and Chris Sedgwick	Reid Crowther and Severn Trent Water Ltd.
	Using the UPM Methodology	Mark Bottomley	Montgomery Watson
	Complex Problems - SIMPOL Solutions	Simon Spooner	Mott MacDonald
	<i>Session 2</i>	Chairperson - David Balmforth	Sheffield Hallam University
	Wastewater Treatment - A Changing Scene	Hugh Tebbutt	Sheffield Hallam University
	River Dee - Chester Quality Improvement Scheme	Ian Garside	Montgomery Watson
	WaPUG Forum	Chairperson - Peter Myerscough	Yorkshire Water Services
	<i>Session 3</i>	Chairperson - Peter Myerscough	Yorkshire Water Services
	Hull WsTW - Flow Analysis Using HydroWorks TM	Ray Chaplin	York City Council
	Post Project Completion Appraisal of Combined Sewer Overflows	John Blanksby	Sheffield Hallam University

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	Assessing Pollution from Dual Manholes	Richard Long	RLA
	Flooding Alleviation for Cellared DG5 Properties	Andy Eadon	Charles Haswell & Partners
Autumn No 13	26-Nov-97 to 28-Nov-97 Blackpool		
	Opening Address	Dr Roland Price	IHE Delft, The Netherlands
	<i>Paper Session 1 Rivers</i>	Chairperson - Liz Kaar	Environmental Agency, North West Region
	Using UPM to investigate Impact on Rivers	Karen Murrell	WRc
	Importance of Data Analysis in Supporting Water Quality Modelling Applications	Trevor Hardy	Environmental Agency, North East Region
	Assessing the Impact of CSOs on Receiving Waters	Ed Bramley	Yorkshire Water Services
	<i>Paper Session 2 Modelling</i>	Chairman - Richard Long	RLA
	Hydraught - Urban Wastewater Planning	Frank Provost & Patrick Swartenbroekx	Aquafin
	Aesthetic Pollutant Modelling	Professor David Balmforth	Sheffield Hallam University
	<i>Paper Session 3 Urban Pollution Management</i>	Chairperson - Nick Martin	Thames Water
	UPM at Work in the Midlands	Philip Hulme and John Martin	Charles Haswell & Partners and Severn Trent Water
	Case Study - Tielt UPM	Johan Van Assel	Aquafin
	Report on Screens - Field Tests	Adrian Saul	University of Sheffield
	<i>Paper Session 4 Integrated Catchment Modelling</i>	Chairperson - Andy Eadon	Charles Haswell & Partners
	European Approach to Integrated Modelling	Johan Larsson	VAV
	Role of Process Modelling in Design of STWs	Brian Chambers	WRc
	Miami-Dade County, Florida's \$1 Billion Programme to Reduce Sanitary Sewer Overflows	Rosanne Cardozo	Montgomery Watson (USA)
	<i>Paper Session 5 Case Studies</i>	Chairman - Brian Sharman	North West Water
	Macro Modelling within the M25	Andrew Browning	Thames Water Utilities
	River Dee Quality Improvement	Richard Margrett	Montgomery Watson
	Wastewater Planning via the Internet	Andrew Walker	Wallingford Software
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	River Modelling	Facilitator - Liz Kaar	Environment Agency, North West Region

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	<i>Workshop 2</i>		
	Urban Pollution Management - The Update	Facilitator - Gerard Morris	Environment Agency, North East Region
	<i>Workshop 3</i>		
	Data Collection for Flow Surveys	Facilitator - Neil Scarlett	IHS
	<i>Workshop 4</i>		
	Screen Performance	Facilitator - Adrian Saul	University of Sheffield
Spring No 14	22-May-98 Birmingham		
	Opening Address	John Owen	Severn Trent Water Ltd.
	<i>Session 1</i>	Chairperson - Richard Long	Richard Long Associates
	Updating The UPM Manual	Ian Clifforde and Gerard Morris	WRc and EA North East Region
	UPM - Optioneering and Implementation	John Littlewood	Bechtel Water Technology
	Estimating the Frequency of Operation of Storm Outfalls and Overflows	David Walton	Hyder Consulting Ltd
	<i>Session 2</i>	Chairperson - Neil Scarlett	IHS
	Use of Modelling Tools for Process Design at WwTW's	Nick Fawcett	Yorkshire Water Plc
	Quantifying Odour Impacts	John Hobson	WRc
	<i>WaPUG Forum</i>	Chairperson - Brian Sharman	North West Water
	<i>Session 3</i>	Chairperson - Wayne Earp	Severn Trent Water Ltd.
	Design of John Pier Pumping Station and Interceptor Sewer	Andy Timms	Bechtel Water Technology
	Development of a Paperless Reporting System	Barry Luck, Adam Davies and Stuart Fraser	Southern Water Ltd and Montgomery Watson
	Simulating High Return Period Storms	Richard Allitt	Richard Allitt Associates Ltd
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	Opening Address Regulatory Issues Relating to Combined Sewer Overflows	Chris Chubb	Environmental Agency
	<i>Paper Session 1 Urban pollution Management</i>	Chairperson - Brian Sharman	North West Water
	Using 99 Percentile Standards for Rivers to Design Controls of Storm Discharges from Sewers	Tony Warn	Environmental Agency Anglian Region
	Optimisation and Control of Inflow	Ole Mark	Danish Hydraulic Institute

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	to a Wastewater Treatment Plant using Integrated Modelling Tools		
	The AMP Process for Intermittent Discharges - A Partnership Approach	Richard Armitage	Environment Agency, North East Region
	<i>Paper Session 2 Process Modelling</i>	Chairperson - Nick Martin	Thames Water
	Achievable Effluent Control from Nutrient Removal under Australian Conditions	Peter Griffith	Montgomery Watson
	UPM Approach to Storm Tank Design	Phillip Hulme	Charles Haswell & Partners
	<i>Paper Session 3 Bathing Waters</i>	Chairperson - Richard Long	Richard Long Associates
	Modelling Requirements to Meet Three Spills Per Bathing Season	Brian Morrow	North West Water
	Calculating Storm Tank Sizing Using Continuous Simulation	Guy Morbey	Reid Crowther
	Achieving Compliance with EC Bathing Water Directive	Norman Babbedge	Environment Agency, South West Region
	<i>Paper Session 4 Modelling 1</i>	Chairperson - Phil Gelder	Severn Trent Water Ltd.
	Developing a Decision Support Model for the Rehabilitation of non-critical Sewers	Dr Richard Fenner	University of Hertfordshire
	Productivity Tools For Use in Drainage Area Studies	Paul Davies	Entec
	Christchurch Harbour HydroWorks Modelling	David Searby and Jamie Margetts	Wessex Water and Richard Long Associates
	<i>Paper Session 5 Modelling 2</i>	Chairman - Betty Ng	Environment Agency Wales
	Project Storm - Modelling and Optimising in New Zealand	Clint Cantrell	Montgomery Watson
	Modelling Large Detention Tanks	Richard Allitt	Richard Allitt Associates Ltd
	Achieving Compliance with EC New Rainfall Frequency Estimation	Duncan Faulkner	Institute of Hydrology
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	UPM Data Collection - Lessons Learnt the Hard Way	Facilitator - Jim Grandison	Insight Surveys
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	Consents and Standards	Facilitator - Tony Warn	Environment Agency, Anglian Region
	<i>Workshop 3</i>		
	Rainfall and Runoff	Facilitator - Martin Osborne	Reid Crowther
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	Opening Address	John West	Birmingham University
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	Inflow and Infiltration Studies in Singapore	Bridget Turner	Binnie Black and Veatch
	Overland Flow Modelling in Hong Kong	James Raymond	Montgomery Watson
	Case Study Oldham UPM	Graham Squibbs	North West Water
	<i>Session 2</i>	Chairperson - Nick Martin	Thames Water
	Design and Installation of Automated Flushing System	Colin Froud	CSO Technik
	Subtleties of a 10 Cumec CSO	Jonathan Chapman	Charles Haswell & Partners
	WaPUG Forum	Chairperson - Brian Sharman	North West Water
	<i>Session 3</i>	Chairperson - Phil Gelder	Severn Trent Water Ltd.
	Guidance on Sewer System Management	David Martin	BGP - Reid Crowther
	Sanitary Waste Disposal Via Solid Waste Route	Richard Ashley	University of Abertay
	Simplified Process Modelling for Process Diagnosis	Dr Jeremy Lumbers	Tynemarch
	ACS Sewers and Automation Tools	Frank Broom	Bechtel Water Technology
Autumn No 15	24-Nov-99 to 26-Nov-99 Blackpool		
	Welcome and Keynote Address	Colin Bayes	SEPA
	Paper 1 Canadian Stormwater Management – Calgary Experience	John Mackenzie	Operational Solutions
	Paper 2 Sustainable Urban Drainage Systems	Brian Reed	CIRIA
	Paper 3 Modelling Urban Drainage BMPs with HydroWorks/InfoWorks	M Reeves, A Swan, V Stovin	Wallingford Software, Sheffield University
	Paper 4 The Almond Valley and Seaford PFI Project – Risk Issues Associated with Flow Prediction	Alan Hill, George Hare	ESW, Waterway Consultancy, Montgomery Watson
	Paper 5 SE Wales Coastal Strategy-A CASE STUDY	Harry Adshead	Hyder Consulting
	Paper 6 Update on the Fylde Coastal Waters Improvements	Brian Morrow	North West Water
	Paper 7 Stormwater at a Wastewater Treatment Works	Pat Green	Anglian Water
	Paper 8 "TVP", "RTC" and "ICS" in Oldham	Stephen Taylor	North West Water

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	Paper 9 Integrated Modelling of complex sewer-river interactions in the Woluwe Catchment	Marleen Dierickx	Aquafin
	Paper 10 Verification –Raising the Standards	Richard Allitt	Richard Allitt Associates Ltd
	Paper 11 AMP3 Cost Estimations Using Sewerage Hydraulic Models	Gian Illari	Hyder Consulting
	Paper 12 East of Scotland Water – Sewerage Infrastructure and Investment and Operational Planning (SIOP)	Kieran Downey, Mark Bottomley	East of Scotland Water, Montgomery Watson Ltd
	Paper 13 Integration of Archive Data for River Quality Environment Agency Assessment	F. J. Simpson, D. Stewart, J. Blanksby, R.J. Gadsden, D. J. Balmforth	Environment Agency, Sheffield Hallam University, Montgomery Watson
	Paper 14 The Potential Impact of Climatic Change upon Sewerage	John Bridgeman, Julie Gregory	Severn Trent Water, The Met Office
	Paper 15 Planning Software for Wastewater Treatment Design	Jeremy Dudley	WRc
Spring No 16	Birmingham 9th May 2000		
	Paper 1 - Data requirements for advanced modelling of flooding in urban areas.	Prof Cedo Maksimovic	Imperial College, London
	Paper 2 - Measuring and modelling performance of dual drainage in an Indian slum	Pete Kolsky	London School of Hygiene and Tropical Medicine
	Paper 3 - Terrain Modelling for Flood Routeing - a Case Study	Jean Harrison, Alastair Moseley, David De Rosa	Severn Trent Water, Haswell Consulting Engineers, WS Atkins Water
	Paper 4 - Environment Agency Environmental Impact Criteria for Developing AMP3 Solutions to Wet Weather Discharges	Gerard Morris, Bob Crabtree	Environment Agency, WRc
	Paper 5 - Assessing the Serviceability of Sewerage Infrastructure	George Heywood and Jeremy Lumbers	Tynemarch Systems
	Paper 6 - Application of Real Time Control to the Leigh Catchment	Jamie Margetts	WS Atkins Water
	Paper 7 - Runoff models - lessons from study Audits	Martin Osborne	BGP Reid Crowther
	Paper 8 - Fast parallel simulation of the integrated urban wastewater	J Meirlaen, D Butler et al	Ghent University, Imperial College, London

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	Paper 9 - SSDS Wet Weather Performance Study	Peter Baldwin, Steven Nye, George Hare	HK EPD, Montgomery Watson, Montgomery watson.
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	Paper 1 - THE WATER FRAMEWORK DIRECTIVE AND ITS IMPLICATIONS	Dave Foster	Environment Agency
	Paper 2 - The Challenges of Urban River Regeneration	J. R. West et al	The University of Birmingham
	Paper 3 - AMP3 – Mission Impossible ?	Brian Lewis, Peter Myerscough	North West Water, Yorkshire Water
	Paper 4 - Soluble	Will Shepherd, Dr. Ian Guymer and Prof. Adrian Saul	University of Sheffield
	pollutant retention in a CSO structure.		
	Paper 5 - AN INNOVATIVE CSO DESIGN TO OPTIMISE SCREEN PERFORMANCE	Garry Edwards, Ashley Ferguson	Entec UK Ltd Northumbrian Water Ltd.
	Paper 6 - The Design of CSO Chambers to Incorporate Screens	Dr DJ Balmforth, G Morris, Prof AJ Saul	Montgomery Watson, Environment Agency, University of Sheffield
	Paper 7 - Development of a Linked Hydro-Environmental Model to Quantify Faecal Indicator Levels in the River Ribble and Fylde Coast	Emma Harris, Julie Wakeham, Andrew Wither, Seyed Kashefipour, Binliang Lin & Roger Falconer	Cardiff University, North West Water, Environment Agency
	Paper 8 - Indicative Floodplain Maps for England and Wales	D. G. Pettifer	Jeremy Benn Associates
	Paper 9 - SEWERAGE - LAND DRAINAGE INTERACTION	Bill Burton, Alastair Moseley	Haswell Consulting Engineers
	Paper 10 - Real Time Control. The Answer to Everything or Just Another Over Hyped Piece of Technology?	B J Morrow	North West Water Ltd
	Paper 11 - Sewer Sediment Modelling - Dishing the Dirt	Jamie Margetts	WS Atkins
	Paper 12 - Montrose Wastewater Project 2000. 'Modern methods and traditional solutions'	David Ward and Duncan Robinson	Hyder Consulting Limited
	Paper 13 - West Belfast - a UPM case study	Ian Clifforde, Steve Quinn, Bob Crabtree, Paul Dempsey, Brian Henderson, Alvin Wilson	Binnie Black & Veatch, WRc, Water Service, Northern Ireland, Environment & Heritage

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			Service, Northern Ireland
	Paper 14 - Rapid Scoping Study for a Complex UPM	NR Marples and P Myerscough	
	Paper 15 - Fast Track Planning for AMP3	Will Williams, Mark Smith	WRc Severn Trent Water
Spring No 17	Coventry 1st May 2001		
	Climate Change and Potential effects on Sewerage Systems	Paul Hurcombe	Severn Trent Water
	Modelling 'Flood Estimation Handbook' Storms	Richard Allitt	Richard Allitt Associates
	Testing of the New Stochastic Rainfall Generator Model of STORMPAC3 against STORMPAC2 and Historical Data	Andrew Lane/Robert Potter	WRc
	Long Term Monitoring in Edinburgh – the Uses and Benefits	Stephen Friend/Alan Hill	Montgomery Watson / East of Scotland Water
	Monitoring and Control of CSO's – Guideline Document	Jacqui Christodoules and Prof Adrian Saul	BHR Group
	Operation and Maintenance of the Hydro-Jet Screen at 6 Sites in South Wales	Andrew Swift and Bob Andoh	Welsh Water & HRD
	NoSWA Coastal Modelling System	Anne Saunders / Chris Mooij	Metoc
	Moving from Models to Options	Andy Eadon / Malcolm Horne / David Gordon	Haswells/ Haswells / Severn Trent Water
	RTC Implementation in Paris	Bo Neilsen	DHi
Scotland 2001	Dunblane June 12 2001		
	Water Framework Directive - Implications for Scotland	Martin Marsden	SEPA
	Implications of Diffuse Pollution for ESW	Morag Garden	ESW
	Diffuse Pollution in the Irvine Catchment	Tom Short	WoSWA
	Design Rainfall and Climate Change	Mark Futter/Ian Lang	Montgomery Watson
	Modeling	Martin Osborne	Earth Tech
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	Problems and Pitfalls	Richard Allitt	Richard Allitt Associates

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	Integrated Modelling of West Belfast	Brian Henderson/A Wilson	Water Service NI & Environment and Heritage Service NI
	Tay Wastewater Project	John Taylor/Helen Cargill	Bechtel/NoSWA
	Continuous and Intermittent Discharges in Coastal Water in Edinburgh	Y Kaya	Babties
Autumn No 17	Blackpool November 2001		
	Wastewater asset management: the implications of the new UKWIR Common Framework	Jeremy Lumbers & George Heywood	
	AMP3 UID's – So you think you know what you have to do and how to do it?	Brian Morrow	
	Modelling in the future of regulation in the water industry	Andrew Hagger & John Bridgeman	
	Interaction between extended storage and treatment plants-a protocol to avoid problems	Richard Ashley et al.	
	Operational controls in large sewerage systems in practice as opposed to theory	Ben Nithsdale	
	An integrated 1-d and 2-d model of hydrodynamic and water quality	Yan Win & Prof. Roger Falconer	
	The Barrow UID study – modelling and solution development	Graham Squibs	
	Coastal Communities – the challenge of storm water management	Nick Borrock & Gwian Kennard	
	The use of macro-invertebrate and FR0466 studies to identify UID's	Mandy Surradge, Mark Tinsdeal & Adrian Rees	
	Being shrewd about the Tame	Karen Murrel	
	Trade effluent – the forgotten element	Ed Bramley, Chris Barker & Andy Arnisson	
	Water quality model setup and calibration: Case Study	Raf Bouteligier et al, Johan Van Assel & David Gordon	
	Implementing the NOSWA AMP3 CSO Programme	M Ramsay, A Gibb & G Wood	
	Heathrow airport SUDS – case study	Jamie Margetts	
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	Local land drainage–	I Rasool & W Burton	Haswell Consulting

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	MAFF/DEFRA high level targets		
	Holding Back the Floods	W Earp	Severn Trent Water
	Wastewater serviceability indicators	Bruce Smith	Ewan Associates
	The Warrington Test Facility	Steve Dempsey & Dave Hetherington	MWH United Utilities
	Intermittent Discharges - Environmental Review, Treatment & Solutions	Tony Dee	WRc
	Western Valley CSO Study	Ian Clifforde	Binnie Black & Veatch
	Rainfall, Runoff and Infiltration revisited	Richard Allitt	Richard Allitt Associates
	Estimation of Infiltration from Long Term Flow Records (to be published shortly)	Bernard Poole	MWH
	If the NAPI fits...	Jamie Margetts	WS Atkins
Scotland 2002	Dunblane 11 June 2002		
	Welcome and Keynote Address	Geoff Aitkenhead, Director of Asset Management	Scottish Water
	Managing Flood Risk: Past, Present and Future.	Prof G Fleming	Strathclyde University
	Planning for Water Quality Improvement	Ingrid Baber	SEPA
	Low cost wastewater treatment without storm tanks	Bob Armstrong	MWH
	Cookstown Urban Pollution Management Study	Ian Clifforde	Binnie Black and Veatch
	Stoke UPM Study - a comprehensive solution	Alastair Moseley	Haswell Consulting
	Prestwick model case study: The benefits of using separate winter and summer models	Alistair Davidson Jamie Margetts	Scottish Water WS Atkins
	Using inherited models	Richard Allitt	Richard Allitt Associates
	The benefits of SIOP	Stephen Friend Martyn Owen	MWH Hyder Consulting
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	Welcome and Keynote Address	Kevin Whiteman	Chief Executive, Kelda Group and Managing

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			Director, Yorkshire Water.
	The Challenge of PR04	Will Williams	WRc
	Modelling Sewerage Service Costs	Simon Clouston	Entec
	Getting the Right Rainfall	Murray Dale	The Met Office
	Southwell UPM Case Study	James Playfair	WS Atkins Water
	Applying the UPM Methodology to a Large CSO Programme	Richard Norreys	MWH
	Environment Agency Review of Sewer Modelling	Robert Whittaker	Environment Agency
	Is There Life After Verification?	Martin Osborne	Earthtech
	The Revised WaPUG Code of Practice for Sewer Modelling	Nick Orman	WaPUG Committee
	Thames Tideway Flow Survey and Data Management	Mike Leafe Mike Metcalf	Onsite MGD
	Flow Surveys in Steep Pennine Catchments	Mark Priestley	MWH
	Sewer Infiltration and Water Mains Leakage	Alasdair Fraser	Ewan Associates
	A New Solution for UIDs	Brian Morrow	United Utilities
	Welsh Water Alliance Virtual Design House	Mike Jones	AMEC
	Social Aspects of Sewerage	Richard Ashley	Pennine Water Group
Spring 2003	Birmingham 14 May 2003		
	Government consultation on existing private sewers in England and Wales	Tim Kelly Nigel Cartwright	Atkins Water DEFRA
	computerised sewer inspection around the next bend? - The ISAAC project	Steve Russell	WRc
	Dual Manholes - the forgotten UID	Steve Keplinger	W S Atkins
	Urban flood routing - can we do it?	Andy Eadon	Haswell Consulting
	Taking a calculated risk and demystifying the return period	Richard Marshall	Scott Wilson Water
	Urban Drainage and flooding issues in India	Kapil Gupta	Indian Technology Institute
	The impact of tails on CSO	Graham Squibbs	United Utilities

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	discharges and size of solution		
	Cardiff coastal modelling - assessment of continuous and intermittent discharges on the Barry bathing beaches	Nick Barcock	Hyder Consulting
	Tame UPM Study - key lessons learnt	Mark Smith Phil Hulme	Severn Trent Water Environment Agency
	Shrewsbury Flood Alleviation Study	Steve Hogg Dave Terry	Ewan Associates Ltd Severn Trent Water
Scotland 2003	Dunblane 19 June 2003		
	Welcome and Keynote Address	Tim Jolley, Head of Hydrology	SEPA
	Effectiveness of Faecal Organism Monitoring in Prioritizing Investment for Scotland's Bathing Waters.	Barbara Barbarito	Scottish Water
	Macro Models - Developing the Bigger Picture	Anthony McCloy	WS Atkins
	Urban Flood Routing - Can We Do it?	Andy Eadon	Haswell Consulting
	Glasgow East End Flooding	David Wilson Martin Spiers	Scottish Water MWH
	Tackling Other Causes Flooding Through Proactive Maintenance	Martin Osborne	Earthtech Engineering
	Sofia - A Case Study	Adam Dean	Ewan Associates Ltd
	Use of the InfoWorks UPM Tool on Coatbridge and Airdrie, Glasgow	Malcom Horne	Hyder Consulting
	The Impact of Permeable Runoff on CSO Discharges	Andrew Jack	United Utilities
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	Welcome and Keynote Address	Prof Richard Ashley	Pennine Water Group
	Application of PPC to Water Companies	S Mounsey	Environment Agency
	The Water Framework Directive and Possible Impacts on UK Wastewater Industry	A Dean	Ewan Associates Ltd

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	Reducing the Number of DG5 Flooding Incidents	D Redfearn N Topham	MWH Yorkshire Water
	Urban Watercourses in East Glasgow	S Tufail	Hyder
	Urban Flood Routing the Next Step	J Hale	Haswell
	A Conversion Protocol to Convert the PR Equation Models to the New UK Runoff Model	R Allitt	RAA
	Derby Case Study - Runoff Modelling	J Margett D Terry	Clear Environmental Ltd Severn Trent Water
	Property Creep - a Case Study	J Cutting	Ewan Associates Ltd
	Sheffield UPM Case Study	M Horne P Press	Hyder ETM
	Kenilworth Drainage Study	I Rassool	Haswell
	Dublin Strategic Study	N Flemming	Hyder
	SIMPOL, SIMON and InfoWorks	M Osborne	Earthtech
	Better Targetting of Investment through Integrated Catchment Modelling	R Armstrong	MWH
	Long Term Monitoring of Pollutant in Highway Runoff	R Crabtree	WRc
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	Welcome and Keynote Address	A Eadon	WaPUG
	SUDS Working Party for Wales	Roger Noden	Hyder
	Risk Management of wastewater systems - past, present and future	Adrian Rees	MWH
	Effects of climate change on system performance	Brian Wilkinson Richard Kellagher	UKWIR HR Wallingford
	Comparison of continuous and event based simulation	Paul Dempsey	WRc
	Bradford UPM - Modelling the change	Matt Caudwell	Mott MacDonald Bentley
	Simplified UPM Studies - the complicated Scunthorpe	Jamie Margetts Sella Ariyadasa	Clear Severn Trent Engineering
	DWF - an inlet works perspective	Denys Wickens	Haswell
	Chasing inflow and infiltration - is it worth it?	Clint Cantrell	MWH

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	Yorkshire UPM Studies - getting it right and learning from mistakes	Chris Barker Martin Osborne	Yorkshire Water Earthtech
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	Welcome and Keynote Address - Floods and Coastal Defence	Prof Alan Werrity	WaPUG
	Effects of climate change on system performance	Brian Wilkinson David Balmforth	UKWIR MWH
	Modelling for extreme events	Andy Eadon Paul Brettell	WaPUG
	Bishopbriggs integrated catchment model - case study	Martin Spiers	MWH
	Mixed (free/surface/pressurized) flows in sewers	Slobodan Djordjevic	Exeter University
	Glasgow strategic drainage study Stage 1	David Page & Okletey Akornor	Hyder
	Using DTMs to determine locations of permeable runoff into sewerage networks	Martin Allitt	Richard Allitt Associates Ltd
	Comparison of continuous and event-based simulation	Paul Dempsey	WRc
	Implementation of the Water Framework Directive - a practical illustration	Lorna Richardson	MWH
London	17 September 2004		
	Keynote speech - Water Framework Directive implementation in the England and Wales	Martin Griffiths	Environment Agency
	Implementation of wastewater capital programmes - managing the conflict of cost and benefit	Mark Bottomley	MWH
	Cost-effective development of urban wastewater systems for Water Framework Directive compliance - the CD4WC EU project	Lorenzo Benedetti	Ghent University
	Yarra Valley dry weather flow balancing	Ashok Sukumaran	MWH
	Effluent and sludge treatment in Yemen	Jeremy Hall	MWH
	Athens - an Olympian challenge	Costas Ripis Gwion Kennard	EYDAP Athens Atkins Water
	Buenos Aires integrated catchment	Rodolfo Aradas	Halcrow Argentina

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	Sofia	Alex Litchev Adam Dean	Sofiyska Voda Ewan Group
	London - the Thames Tideway project	Nick Martin Paul Dempsey	Thames Water WRc
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	Welcome and Keynote Address	Andy Eadon	Haswell
	Developing a water quality compliance procedure for the Thames Tideway	P Dempsey N Martin	WRc Thames Water
	CSOs in Severn Trent	D Gordon	Severn Trent
	Spreading best practice in CSO design and maintenance	D Hanson J Cutting	Yorkshire Water Ewan Group
	Reducing the cost of dealing with sewer flooding	S Hogg M Elphick	Ewan Group Ewan Group
	Wonastow Brook - modelling overland flows	J Hoare	Atkins
	Aquifers, tunnels and trains...the Sodbury Tunnel story	J Hale	Haswell
	BTKNEEC, CBA, Excessive Cost...what does the future hold?	Luke Pearson	United Utilities
	Whole life costs in sewerage	W Shepherd	University of Sheffield
	Computer Aided Rehabilitation of Sewerage networks (CARE-S)	R Ugarelli W Williams	SINTEF WRc
	10 years of the UPM Procedure	I Clifforde R Crabtree	Black and Veatch WRc
	Demonstrating sustainable solutions by applying integrated modelling	S Kenney C Barker	MWH Yorkshire Water
	Will we ever understand and model surface wetting and drying?	J Margetts D Terry	Clear Ltd Severn Trent Water
	The Ribble WFD pilot	C Gaskell	Environment Agency

list of papers

	A wastewater modelling strategy to investigate the impact of intermittent discharges on shellfisheries across East Anglia	J Swampillai E Gill	Anglian Water Halcrow
	Spending wisely through environmental design optimisation	R Dannett S Wright	Metoc Metoc
	R+D Workshop - a flow of good ideas - designing for exceedence.	C Digman P Shaffer	MWH CIRIA
	R+D Workshop - modelling with radar rainfall. How and why.	M Dale James Lau	Met Office Black and Veatch

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