

Recent Developments in Standards and Specifications for Road Schemes

An Overview of Standards for Engineering Designers

Course dates: **Athlone** (Hodson Bay Hotel) Tuesday, 14 April 2015

Cork (Radisson Blu Hotel) Friday, 17 April 2015

Dublin (Stillorgan Park Hotel) Wednesday 27 May 2015

Dublin (Carlton Hotel, Blanchardstown) Tuesday, 21 April 2015

Sligo (Radisson Blu Hotel) Thursday, 23 April 2015

Time	DMRB Section	Speakers	DMRB/MCDRW Standards	Addressing
9.45am-10.00am	<i>Registration, Tea & Coffee</i>			
10.00am to 10.10am	Recent Updates to NRA DMRB & MCDRW	Albert Daly	Welcome and overview of publications in the last 12 months	<ul style="list-style-type: none"> • Overview of NRA documents • Standards website • Drivers for change • Outline of course programme
10.10am to 11.10am	Pavement	Tom Casey / Eddie Winterlich	HD 23, HD 30, HD 31, HD 36, HD 37, HD 300, HD 301 and Series 000, 100, 700, 900	<ul style="list-style-type: none"> • Pavement Design and Maintenance • Maintenance Assessment Procedure • Pavement Asset Repair and Renewal • Surfacing Materials for New and Maintenance Construction • Design Guidance and Procedures for New Systems on National Roads • Approval of Specific Products Manual • Pavement and Bituminous Bound Specifications
11.10am to 11.25am	<i>Tea & Coffee</i>			

Time	DMRB Section	Speakers	DMRB/MCDRW Standards	Addressing
11.25am to 12.05pm	Structures	Fergal Cahill	BD 35, BD86, BD 95, BD 94, BD 51, NRA BD 101, Series 1700, Series 1800 (including RCD/1800/1 to 9), Series 1900, Series 2400, Series 2500 (including RCD/2500/1 to 3)	<ul style="list-style-type: none"> • Standards withdrawn • Treatment of Structures on Widening Schemes • Design of Minor Structures • Design Criteria for Portal and Cantilever Sign/Signal Gantries • Quality Assurance Scheme for Paints & Similar Protective Coatings • Structural Review & Assessment of Road Structures • The Assessment of Road Bridges & Structures for the effects of Abnormal & Exceptional Abnormal Load Vehicles using SV & SOV Load Models • Structural Concrete • Structural Steelwork + Gantry RCDs • Protection of Steelwork against Corrosion • Brickwork, Blockwork & Stonework • Special Structures & Access Underpass RCDs • Eurocodes Update – 2nd Generation • NRA WIM installation
12.05pm to 12.35pm	Road Safety	Forbes Vigors	HD 15, HD 16, HD 17, HA 17, HD 19, HA 19 New IAN	<ul style="list-style-type: none"> • Network Safety Ranking • Temporary Safety Measures Inspection • Road Safety Inspection Standard and Guidelines • Road Safety Audit Standard and Guidelines • IAN Towns and Villages
12.35pm to 1.05pm	Road Safety	Alastair DeBeer / Herbert Nyamakope	Series 400 and TD 19 Updates	<ul style="list-style-type: none"> • Vehicle Restraint systems

Time	DMRB Section	Speakers	DMRB/MCDRW Standards	Addressing
<i>1.05pm to 1.45pm Lunch</i>				
1.45pm to 2.45pm	Drainage	Christian Nea / Les Brown	HD 78, 139, 103, 106, 33, 102, 137, 83, 140, 107, 118, 119, 45, HA 33 Series 500	<ul style="list-style-type: none"> • Design of Outfalls for Surface Water Channels • Edge of Pavement Details • Vegetative Treatment Systems for Highway Runoff • Drainage of Runoff from Natural Catchments • Spacing of Road Gullies • Hydraulic Design of Road-Edge Surface Water Channels • Safety Aspects of Road Edge Drainage Features • Determination of Pipe and Bedding Combinations for Drainage Works • Design of Outfall and Culvert Details • Design of Soakaways • Grassed Surface Water Channels for Highway Runoff • Road Drainage and the Water Environment • Drainage, Attenuation and Pollution Control Design
2.45pm to 3.05pm	Road Geometry	Martin Allen	TD 9, TD 301	<ul style="list-style-type: none"> • Road Link Design • New junction standard
3.05pm to 3.25pm	ITS	David Laoide-Kemp / Tim Mullen	TD 302 and Series 1500	<ul style="list-style-type: none"> • Traffic Control and Communications Systems Change Management • Motorway communications
<i>3.25pm</i>	<i>End of training course</i>			