



SURFACE SOLUTIONS  
FOR GRASS & GRAVEL

TechTurf

## Published papers on mesh elements and TechTurf

- ME4** A New Method of Soil Stabilisation. Proc. Conf. on Polymer Grid Reinforcement, Thomas Telford, London, 1984. Brian Mercer, Kamal Z. Andrawes, Alan McGowan & Nicholas Hytiris, Netlon Ltd & University of Strathclyde.
- ME6** Soil Strengthening Using Randomly Distributed Mesh Elements. Proc. of 11th Int. Conf. on Soil Mechanics and Foundation Engineering, San Francisco, 1985. A. McGowan, K. Z. Andrawes, N. Hytiris, University of Strathclyde, F. B. Mercer, Netlon Ltd
- ME18** A New Soil Stabilisation Technique. Thesis for PhD, Dept of Civil Engineering, University of Strathclyde, 1986. Nicholas Hytiris.
- ME3** The Use of Mesh Elements to Alter the Stress-Strain behaviour of Granular Soils. Third Int. Conf. on Geotextiles, Vienna, 1986. Andrawes K. Z., McGowan A. Hytiris N. Dept. of Civil Engineering, University of Strathclyde, Mercer, F. B. & Sweetland, D. B. Netlon Ltd.
- ME20** Improvement of Marginal Soils by Mixing in Polymeric Elements. Building on marginal & Derelict Land, Thomas Telford Ltd, London, 1986. A. McGowan, K. Z. Andrawes, N. Hytiris, F. B. Mercer
- ME1** Notes on Static and Dynamic Interlock. 1990. Prof. Alan McGowan.
- MEP3** A New Solution to Trafficked Grass Areas. Highways & Transportation, Dec. 1993. T. L. H. Oliver, Prof. A. McGowan.
- ME17** Stabilisation of Sand using Randomly Distributed Polymetric Mesh Elements. 2nd Conf on Civil Engineering, Cairo, Nov 1994. Prof K. Z. Andrawes, A. McGowan, T. I. Qayyum, Strathclyde Uni.
- ME21** Bearing Capacity of Unreinforced and Reinforced Soil under Rapid Loading. PhD Thesis for University of Strathclyde, June 1995. Tanvir Iqbal Qayyum, supervised by Prof. A. McGowan, Prof A. Z. Andrawes.
- ME23** Netlon Advanced Turf Subjected to Rapid Loading. Extracted from Bearing Capacity of Unreinforced and Reinforced Soil Under Rapid Loading. PhD Thesis for University of Strathclyde, June 1995. Tanvir Iqbal Qayyum, supervised by Prof. A. McGowan, K. Z. Andrawes.
- MEE14** Netlon Advanced Turf - A Scientific Assessment of the Impact of a Hoof on Racetrack Surfaces. Extracted from Bearing capacity of Unreinforced and Reinforced Soil Under Rapid Loading. PhD Thesis for University of Strathclyde, June 1995. Tanvir Iqbal Qayyum, supervised by Prof. A. McGowan, Prof. K. Z. Andrawes.
- ME24** The Use of Polymeric Mesh Elements to Strengthen a Range of Soil Types PhD Thesis for University of Strathclyde, January 1996. Agus Darmawan Adi
- MES1** A Randomly Oriented, Interlocking Mesh Elements Matrices System for Sport Turf Rootzone Construction. 6th Int. Turfgrass Research Conf., Tokyo, 1989. J. B. Beard & S. I. Sifers.
- MET8** Feasibility Assessment of Randomly Oriented, Interlocking Mesh Element Matrices for Turfed Root Zones. American Society for Testing and Materials. Philadelphia, 1990. ASTMSTP1073. J. B. Beard & S. I. Sifers.
- MES2** Sport Turf Rootzone Stabilization via Randomly Oriented, Interlocking Mesh Element-High Sand Matrices Systems. Texas Turfgrass Research, 1990. S. I. Sifers & J. B. Beard.
- MES4** Building a Better Sportsfield. Grounds Maintenance, 1990. S. I. Sifers & J. B. Beard.
- MET23** Response of Turfed Root Zones in an Interlocking Mesh Element High-Sand Matrix System 1985-1990. Texas Turfgrass Research, 1993. S. I. Sifers & J. B. Beard.
- MES7** Assessment of Three Densities and Two Vertical Placement Techniques for Sport Turf Root Zone Stabilization Using a Randomly Orientated, Interlocking Mesh Element-High Sand Matrices System 1988-1990. Texas Turf Research, 1992. S. I. Sifers & J. B. Beard.
- MES13** Assessment of Three Densities, Two Depths of Mesh Element Root Zone Mixture, Two Vertical Placement Techniques and Two Sizes of Matrices for Sport Turf Root Zone Stabilization Using a Randomly Orientated, Interlocking Mesh Element-High Sand Matrix System -1989-1990. S. I. Sifers & J. B. Beard.
- MEE6** Update on Mesh-Sand Rootzone Performance at Santa Anita Turf Racetrack. Texas A & M 1991. J. B. Beard, S. Sifers & S. Guise.
- MEG7** Discovery of Beneficial Environmental Contributions from Mesh Elements to a Randomly Oriented, Interlocking Mesh-High Sand Rootzone System for Golf Course Applications. GCSAA, New Orleans, 1992. Dr James B. Beard & Samuel I. Sifers.
- MES5** Discovery of Beneficial Environmental Contributions from Mesh Elements to High Sand Modified Rootzones for Sportsfields. Texas Turfgrass Research, 1992. J. B. Beard & S. I. Sifers.
- MEE8** A Randomly Oriented, Interlocking Mesh High Sand Root Zone System for Sportsfield and Racecourse Applications. 1992. Dr. J. B. Beard.



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- MEF8** A Field Trial on Isotropic Stabilisation of Sand Rootzone for Football Using Netlon Mesh Elements. STRI Journal, Vol. 70, 1994. P. M. Canaway.
- MET19** The Effects of Mesh Element Inclusion on Soil Physical Properties of Turfgrass Rootzones. STRI Journal, Vol. 70, 1994. C. W. Richards.
- MEB1** Bowling Green Construction Research. Turfgrass Technology, Melbourne, 1993. Michael Robinson & John Neylan.
- MEB3** Investigation of Randomly Orientated Interlocking Mesh Elements/ Sand Rootzone System for Bowling Greens. Jan. 1994. John Neylan, Michal Robinson.
- MEG9** Netlon Mesh Elements for Golf Course Applications. 12th National Turfgrass Conf., Tasmania, 1992. Bill G. Casimaty.
- MEP4** Yarra Park - Car Parking In Situ Tests on StrathAyr Profiles. Melbourne City Council, 1993. D. J. Douglas & Partners.
- ME19** Stress Strain Behaviour of Randomly Distributed, Discrete Fiber and Mesh Reinforced Sand. Msc Thesis, Middle East Technical University, Ankara, 1993. Cem Uysal.
- ME15** Biaxial Comparison Tests on Soil Micro-reinforced by Mesh Elements. 5th Int. Conf. on Geotextiles, Geomembranes & Related Products, Singapore, 1994. J. P. Gourc, J. C. Morel, IRIGM, Universite Joseph Fourier, Grenoble.
- MEE2** Equine and Greyhound Track Surfaces - Innovations and Research. 16th Annual Symposium on Racing, University of Arizona, 1989.
- MEE9** Natural Turf Tracks, Their Construction and Care. 18th Annual Symposium on racing. University of Arizona, 1991.
- MET27** Assessment of Plant Morphological Responses and Soil Physical Characterizations Resulting from Augmentation of Sandy Clay loam and Clay Loam Turfgrass Root Zones with randomly Oriented Interlocking mesh Elements - 1994. S. I. Sifers, J. B. Beard, R. H. White and M. H. Hall. To be published in Texas Turfgrass Research.
- MEG23** Comparative Assessments of Texas - USGA High-Sand Putting Green With and Without Randomly Oriented Interlocking Mesh Elements 1994. (Synopsis). S. I. Sifers, J. B. Beard, R. H. White and M. H. Hall. To be published in Texas Turfgrass Research.
- MES14** Assessment of Plant Morphological Responses and Soil Physical Characterizations Resulting from Augmentation of Sandy Clay Loam and Clay Loam Turfgrass Root Zones with Three Densities of randomly Oriented Interlocking Mesh Elements - 1992. S. I. Sifers, J. B. Beard & M. H. Hall.
- MET24** Turf Plant Responses and Soil Characterisations in Sandy Clay Loam and Clay Loam Soil Augmented by Turf in Interlocking Mesh Elements. Texas Turfgrass Research 1993. S. I. Sifers, J. B. Beard & M. H. Hall.
- MEG16** Comparative Assessments of Twelve Selections of Creeping Bentgrass on a High-Sand Rootzone Constructed Following the Texas USGA Method 1991 - June 1993. S. I. Sifers, J. B. Beard & M. H. Hall.
- MEG17** Comparative Assessments of a Texas - USGA High-Sand Putting Green With and Without Randomly Oriented Interlocking Mesh Elements. Texas Turfgrass Research 1993. S. I. Sifers, J. B. Beard & M. H. Hall.
- MET15** Solutions to Compaction. Greenkeeper International, 1993. Dr James Beard.
- MET16** Reinforcement Combats Black Layer Problem. Parks and Sportsgrounds, 1993. James Beard & Samuel Sifers.
- MES22** Stabilization and Enhancement of Sand-Modified Root Zones for High Traffic Sport Turfs with Mesh Elements. TAES Research Bulletin B-1710, February 1993. James B. Beard & Samuel I. Sifers.
- MET26** Assessment of Plant Morphological Responses and Soil Physical Characterizations Resulting from Augmentation of Sandy Clay Loam and Clay Loam Turfgrass Root Zones With Three densities of Randomly Oriented Interlocking Mesh Elements - 1993. Texas Turfgrass Research, 1996. S. I. Sifers, J. B. Beard, R. H. White and M. H. Hall.
- MET25** Solutions To Soil Compaction - Safety Problems of Intensively Trafficked Turfs. STMA Conference, Los Angeles, October 1994. Dr James B. Beard.
- MEF12** A New Technology for Sports Field Construction with the Randomly Oriented, Interlocking Mesh Elements System and its Actual Use Case History. Proc. of Int. Symposium on Soccer Fields, Tokyo, Japan, October 27-28 1994. Dr James B. Beard.
- MEG18** Solutions to Soil Compaction Problems of Intensively Trafficked Golf Course Turfs. SIERG Conference, Reims, France, November 1994. Dr James B. Beard.
- MES20** Enhancing Participant Safety in Natural Turfgrass Surfaces including Use of Interlocking mesh Element Matrices. ASTM Symposium on Safety in Football, November 1994. S. I. Sifers and J. B. Beard. ASTM STP1305 Safety in American Football, 1997.
- ME25** Performance Evaluation of Turfgrass Root Zone Materials and Profile Constructions Using and Innovative Rapid, Eccentric Loading Test Method. A. McGowan, T. I. Qayyum, J. B. Beard and T. L. H. Oliver. To be published in Proc of International Turfgrass Research Conference, Sydney, July 1997.

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