Provisional Programme for the Durham Symposium on
Spinors, Twistors and Complex Structures in General Relativity
5-15 July 1988

Tuesday, 5 July   arrival and registration
                         Cold evening meal available at Grey College until
                         8.30 pm.

Wednesday, 6 July

    9.30 a.m.   R. Penrose
                         New Directions in Twistor Theory

    10.45 a.m.   coffee in Mathematics Department

    11.15 a.m.   M.A. Singer
                         Twistor Conformal Field Theories

    1.00 p.m.   lunch at Grey College

    2.30 p.m.   A. Ashtekar
                         New Variable Framework for Einstein and Yang-Mills
                         Theories

    3.45 p.m.   tea in Mathematics Department

    4.15 p.m.   L.J. Mason
                         Hypersurface Twistors

    6.30 p.m.   sherry at Grey College

    7.00 p.m.   dinner at Grey College

Thursday, 7 July

    9.30 a.m.   M.G. Eastwood
                         Conformal Geometry and Related Structures

    10.45 a.m.   coffee

    11.15 a.m.   T.N. Bailey
                         Local Twistors and Conformal Geometry

    1.00 p.m.   lunch

    2.30 p.m.   E.T. Newman
                         Backlund Transformations for Self-Dual Yang-Mills
                         Equations

    3.45 p.m.   tea

    4.15 p.m.   R.S. Ward
                         2 + 1 Dimensional Twistor Theory

    7.00 p.m.   dinner

Friday, 8 July

9.30 a.m.	R. Graham	
	Einstein Metrics with Prescribed Conformal Infinity.	

10.45 a.m.   coffee

11.15 a.m.   R.J. Baston
Twistors and Representation Theory

1.00 p.m.   lunch

2.30 p.m.   C.R. LeBrun
Ambitwistors and Einstein's Equations

3.45 p.m.   tea

4.15 p.m.   E. Sokatchev
Harmonic Superspace

Saturday, 9 July

9.30 a.m.   E. Dunne
Generalized Twistor Transform

10.45 a.m.   coffee

11.15 a.m.   N.M.J. Woodhouse
Stationary Axi-Symmetric Spacetimes

1.00 p.m.

2.30 p.m.   S.W. Hawking
Baby Universes

3.45 p.m.   tea

4.15 p.m.   D.N. Page
The Hartle-Hawking Proposal and the Arrow of Time

7.00 p.m.   dinner

Sunday, 10 July   Excursion to York

The programme for Week 2 (11-15 July) will be decided at the Symposium.

In addition, it is expected that there will be some more specialist talks in the evenings, to be arranged at the Symposium.

There will be a special dinner which will be on Tuesday, 12 July, at 7.00 p.m. There will also be a tour of Durham Cathedral, on Tuesday, 12 July, at 3.30 p.m.

Further Programme for the Durham Symposium on Spinors, Twistors and Complex Structures in General Relativity

SECOND WEEK

Monday, 11 July

9.30 a.m.	A.P.Hodges	Twistor Diagrams
10.45 a.m.	Coffee	
11.15 a.m.	A.Trautman	The Spinorial Chessboard
1.00 p.m.	Lunch	
2.00 p.m.	Photograph – Grey College	
2.30 p.m.	C.Hull	Topological Quantum Field Theories
3.45 p.m.	Tea	
4.15 p.m.	A.Rogers	Path Integration in Superspace
7.00 p.m.	Dinner	
8.30 p.m.	S.A.Huggett	Projective Twistor Diagrams and the Dot Product

Tuesday, 12 July

9.30 a.m.	M.F.Atiyah	Title to be announced
10.45 a.m.	Coffee	
11.15 a.m.	S.G.Gindikin	Integral Geometry, Twistors and Generalized Conformal Structures
1.00 p.m.	Lunch	
2.00 p.m.	L.Hughston [Note earlier time]	Real Classical Strings in 4–Dimensions
3.45 p.m.	Visit to Durham Cathedral	
7.00 p.m.	Sherry Reception	
7.30 p.m.	Special Dinner	

Wednesday, 13 July

9.30 a.m.   K.P.Todd
The Present Status of Quasi-Local Mass

10.45 a.m.   Coffee

11.15 a.m.   Z.Perjés
Parametric Spinors and Applications to Classical and Quantum
Gravity

1.00 p.m.   Lunch

2.30 p.m.   C.Pope
~~Manifolds with Nowhere-Vanishing Spinor Fields~~
Lorentz anomalies & critical dimensions for supermembranes

3.45 p.m.   Tea

4.15 p.m.   K.Stelle
Massless States in Supermembranes

7.00 p.m.   Dinner

8.30 p.m.   J.Isenberg
Ricci Flow and the Smoothing Cosmological Spacetimes

Thursday, 14 July

9.30 a.m.   H.Friedrich
Static and Radiative Space-times

10.45 a.m.   Coffee

11.15 a.m.   R.Sorkin
Analytic Continuation and Topology Change in 2-Dimensions

1.00 p.m.   Lunch

2.30 p.m.   P.Yasskin
Ambitwistors, Bitwistors and Gravity

3.45 p.m.   Tea

4.15 p.m.   G.A.J.Sparling
Twistors and Integrable Systems

6.30 p.m.   Dinner   [Note earlier time]

8.30 p.m.

Friday, 15 July

Check out by 10.00 a.m. evening if staying for lunch.

EVENING LECTURES 7, 8 JULY

THURSDAY, 7 July: Room CM221 Mathematical Sciences Department

8.30 p.m.   M.Batchelor — The Manifold of Maps between Manifolds

9.00 p.m.   C.T.J.Dodson — Universal Connections and Stability

FRIDAY, 8 July: (Room to be arranged: either CM221 or CM101)

8.30 p.m.   R.O.Wells,Jr. — Geometry of Supermanifolds.