L M S / S E R C   Durham Symposium on

P O T E N T I A L   T H E O R Y

held at The University of Durham,   11 - 22 July, 1983.

O R G A N I S E R S '   R E P O R T

1.   There were 63 mathematicians at the Symposium, all either
     working principally in Potential Theory or in closely-related
     areas of pure mathematics, numerical analysis, or probability.
     As we had expected there was a great deal of cross-
     fertilisation of ideas, the effects of which will become
     clearer in the next year or two.

     A number of letters have been received from participants
     saying how much they had benefited from the talks and
     discussions; we are indeed very gratified by our colleagues
     comments on the success of the participant selection
     arrangements and the programming.

2.   There were six Main Speakers, each of whom gave two
     one-hour talks -

i)	A Baernstein	:	Recent results in real variable Hardy spaces
ii)	H Bauer	:	Aspects of potential theory.
iii)	F W Gehring	:	Uniform domains and the quasi-disc.
		:	Function theory in quasi-discs.
iv)	P Jones	:	H^∞ projection operators and the Corona theorem for certain Riemann surfaces.
v)	P J Rippon	:	Thin sets in potential theory.
		:	Infinite exponentials [with computer-assisted demonstration].
vi)	H S Shapiro	:	Fischer's decomposition, revisited.

In addition there was a somewhat larger number of short talks
in the morning or late afternoon:

H Leutwiler	:	BMO and the Harnack metric
J L Lewis	:	Paths for subharmonic functions
W K Hayman	:	Maximum Characteristic and value distribution
J Hawkes	:	Polar sets in probabilistic potential theory
A Hinkkanen	:	Growth of quasi-symmetric functions
G Wu	:	Harmonic measure and metric properties of sets
R Kaufman	:	The snowflake domain
J Rossi	:	The growth of subharmonic functions along paths
W Hengartner	:	Uniform harmonic approximation

P L Walker	:	Solutions of $f(z+1) = f(z)$
D Kershaw	:	Approximation by harmonic functions
A Stray	:	Decomposition of approximable functions
M Klimek	:	Maximal plurisubharmonic functions and L-regular sets
K Stephenson	:	Level sets of analytic and harmonic functions
M Vuorinen	:	Inequalities for the moduli of curve families
C Pommerenke	:	On power series with Hadamod gaps
F T Brawn	:	Mean values of strongly subharmonic functions on half-spaces
E Pitz	:	Teichmuller theory and extremal length
M Zinsmeister	:	Conformal mapping and almost Lipschitzian domains
T Sheil-Small	:	Harmonic univalent functions
J Brennan	:	Weighted polynomial approximation and quasi-analyticity
D Hamilton	:	Quadratic inequalities and boundary values
K F Barth	:	Asymptotic tracts of harmonic functions
P M Gauthier	:	Approximation on unbounded sets - update
A Ancona	:	Ends and Martin boundary
J B Garnett	:	Applications of harmonic measure to spectral theory