

International Conference on  
MULTIVARIATE APPROXIMATION  
Haus Bommerholz, September 25–30, 2005

**Monday, September 26**

07:30            Breakfast

*1st Morning Session*

09:00–09:30    Welcome and Opening

09:30–10:30    Joseph D. Ward  
*Norming sets in multivariate approximation: an overview*

10:30–11:00    Coffee break

*2nd Morning Session*

11:00–11:30    Manfred Reimer  
*Asymptotical evaluation of Newman–Shapiro kernels near to their pole*

11:30–12:00    Jürgen Prestin  
*Application of the radial basis function method to texture analysis*

12:30            Lunch

*Afternoon Session*

15:30–16:30    Stephan Dahlke  
*Weighted coorbit spaces and Banach frames on homogeneous spaces*

16:30–16:50    Coffee break

16:50–17:20    George Kyriazis  
*On the construction of frames for function spaces*

17:20–17:50    Holger Rauhut  
*Time-frequency analysis of radial functions*

18:00            Dinner

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**Tuesday, September 27**

07:30            Breakfast

*1st Morning Session*

09:00–10:00    Mariano Gasca  
*On multivariate polynomial interpolation and related topics*

10:00–10:30    Elena Berdysheva  
*Bernstein-Durrmeyer operators and their natural quasi-interpolants*

10:30–11:00    Coffee break

*2nd Morning Session*

11:00–12:00    Borislav Bojanov  
*Interpolation by bivariate polynomials*

12:00–12:30    Szilárd Révész  
*A comparative analysis of Bernstein-type estimates  
for the derivative of multivariate polynomials*

12:30            Lunch

*Afternoon Session*

15:30–16:30    András Kroó  
*On density of multivariate homogeneous polynomials  
in the space of continuous functions*

16:30–16:50    Coffee break

16:50–17:20    Tom Lyche  
*Chain rules for divided differences and Faà di Bruno's formula*

17:20–17:50    Péter Vértesi  
*Lagrange interpolation, Lebesgue function, Lebesgue constant  
From the book: Panorama of the Hungarian Mathematics in the 20th Century*

18:00            Dinner

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**Wednesday, September 28**

07:30            Breakfast

*1st Morning Session*

09:00–10:00    Vitalii V. Arestov  
*Some extremal problems for positive definite functions*

10:00–10:30    Wolfgang zu Castell  
*Basis function methods*

10:30–11:00    Coffee break

*2nd Morning Session*

11:00–11:30    Dietrich Braess  
*Multivariate approximation of  $1/\|x\|$  and partial differential equations*

11:30–12:00    Ognyan Kounchev  
*On a new approach and solution of the multivariate moment problem*

12:00–12:30    Hermann Render  
*Extended cubature formulae of Gauss–Jacobi type  
for a certain class of measures*

12:30            Lunch

14:00–18:30    Excursion

19:00            Dinner

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**Thursday, September 29**

07:30            Breakfast

*1st Morning Session*

09:00–10:00    Maria Charina–Kehrein  
*Regularity of refinable function vectors: joint spectral radius,  
transfer operator, restricted spectral radius*

10:00–10:30    Georg Umlauf  
*Analysis and tuning of subdivision algorithms*

10:30–11:00    Coffee break

*2nd Morning Session*

11:00–12:00    Serge Dubuc  
*Smooth surfaces from subdivision schemes*

12:00–12:30    Larry L. Schumaker  
*Trivariate  $C^r$  polynomial macro–elements*

12:30            Lunch

*Afternoon Session*

15:30–16:30    Stephen J. Gardiner  
*Pointwise convergence and radial limits of harmonic functions*

16:30–16:50    Coffee break

16:50–17:20    Manfred von Golitschek  
*Penalized least squares approximation*

17:20–17:50    Bernd Mulansky  
*Delaunay configurations and multivariate splines*

18:00            Dinner

19:30            Problem Session

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**Friday, September 30**

07:30            Breakfast

*1st Morning Session*

09:00–10:00    Oleg Davydov  
*Fitting scattered data on manifolds with projected bivariate splines*

10:00–10:30    Frank Zeilfelder  
*Local Lagrange interpolation by multivariate  $C^r$ -splines*

10:30–11:00    Coffee break

*2nd Morning Session*

11:00–11:30    Daniela Roşca  
*Weighted wavelets on the sphere*

11:30–12:00    Gerlind Plonka–Hoch  
*A multiscale wavelet–inspired scheme for nonlinear diffusion*

12:00–12:30    Peter Oswald  
*A counterexample for the  $L_2$ -projection operator  
onto linear spline spaces*

12:30            Lunch