

(revised 3/24/06)

SPRING TOPOLOGY AND DYNAMICAL SYSTEMS CONFERENCE 2006

All events are held in Elliott University Center

WEDNESDAY EVENING, MARCH 22

7:00– 10:00 p.m. WELCOME Reception, Auditorium Pre–function Room

THURSDAY MORNING, MARCH 23

8:30– 8:40 WELCOME, Auditorium

PLENARY TALK, Auditorium

8:40– 9:30 a.m. ISTVAN JUHASZ, *Results on Resolvability*

SEMI-PLENARY TALK (two parallel lectures)

9:35– 10:00 a.m. F. JAVIER TRIGOS–ARRIETA, *Two Problems on Topological Groups*
Cone A

9:35– 10:00 a.m. BRIAN RAINES, *A Characterization of ω –limit sets of unimodal maps*
Cone B

10:00– 10:30 a.m. REFRESHMENTS Cone C

SEMI-PLENARY TALK (two parallel lectures)

10:30– 10:55 a.m. LOIS KAILHOFER, *On inverse limit spaces of tent maps with periodic critical points* Cone A

10:30– 10:55 a.m. NIKOLAY BRODSKIY, *Nagata–Assouad dimension and Lipschitz extensions* Cone B

SPECIAL SESSIONS (four parallel sessions)

General/Set–theoretic Topology Special Session Cone A

11:00– 11:15 a.m. WANJUN HU, *Connected Tychonoff expansions*

11:20– 11:35 a.m. JANA FLASKOVA, *Ultrafilters and small sets*

11:40– 11:55 a.m. DAVE VISSER, *On generalized Erdos spaces*

Geometric Topology/Geometric Group Theory Special Session Cone B

11:00– 11:15 a.m. ANDRAS JUHASZ, *Regular homotopy classes of singular maps*

~~11:20– 11:35 a.m. THAMER AL ANI, *Subspaces of Katetov Extension*~~

11:40– 11:55 a.m. ALEXANDRE KARASSEV, *Root closed function algebras*

Continuum Theory Special Session Claxton Room

11:00– 11:15 a.m. DAVID BELLAMY, *The work so far of Charles L. Hagopian (Part 1)*

11:20– 11:35 a.m. DAVID BELLAMY, *The work so far of Charles L. Hagopian (Part 2)*

11:40– 11:55 a.m. MARCUS MARSH, *Charles Hagopian -- A Brief Biography at 65.33 years*

Dynamical Systems Special Session, Kirkland Room

11:00– 11:15 a.m. ROBERT L. DEVANEY, *A Myriad of Sierpinski Curve Julia Sets*

11:20– 11:35 a.m. DANIEL M. LOOK, *Sierpinski Curve Julia Sets for the Weierstrass Elliptic Function*

12:00–1:55 LUNCH

PLENARY TALK, Auditorium

1:55–2:45 p.m. CHARLES L. HAGOPIAN, *An update on the elusive fixed–point property*

SPECIAL SESSIONS (four parallel sessions)

General/Set–theoretic Topology Special Session Cone A

2:50– 3:05 p.m. PETER NYIKOS, *Sequential compactness (and lack thereof) in topological spaces*

3:10– 3:25 p.m. JOE MASHBURN, *The weakly way–below relation*

3:30– 3:45 p.m. ELLEN MIR, *Continuous Images of Relatively Locally Finite Spaces*

3:50– 4:05 p.m. MIKHAIL MATVEEV, *On monotone Lindelöfness*

Geometric Topology/Geometric Group Theory Special Session Cone B

2:50– 3:15 p.m. DANIEL FARLEY, *On the Cohomology Rings of Tree Braid Groups*

3:20– 3:40 p.m. LUCAS SABALKA, *On rigidity and the isomorphism problem for four strand tree braid groups*

3:45– 4:05 p.m. GÁBOR LUKÁCS, *Non–topologizable groups*

Continuum Theory Special Session Claxton Room

2:50– 3:05 p.m. ERIC L. MCDOWELL, *Continua X with a small–point hyperspace homeomorphic to $X \times [0, 1]$*

3:10– 3:25 p.m. ALEJANDRO ILLANES, *Fixed Point Property and Hyperspaces*

3:30– 3:45 p.m. LIKIN C. SIMON ROMERO, *The Hyperspace Graph of Connected Subgraphs and $C(X)$*

3:50– 4:05 p.m. GERARDO ACOSTA, *More families of circle–like continua which are C –determined*

Dynamical Systems Special Session, Kirkland Room

2:50– 3:05 p.m. JAMES YORKE, *Open Billiards and Horseshoes*

3:10– 3:25 p.m. MARIUSZ URBANSKI, *Geometric Rigidity of Limit Sets of Conformal Iterated Function Systems*

3:30– 3:45 p.m. JOHN C. MAYER, *Transient versus asymptotic dynamics in population biology*

3:50– 4:05 p.m. ETHAN M. COVEN, *Prevalence of Odometers in Cellular Automata*

4:10– 4:40 REFRESHMENTS Cone C

Special Sessions (four parallel sessions)

General/Set–theoretic Topology Special Session Cone A

4:40– 4:55 p.m. MADDALENA BONANZINGA, *On some star selection principles*

5:00– 5:15 p.m. FRANCIS JORDAN, *Strong local properties of function spaces with*

topology of pointwise convergence

5:20– 5:35 p.m. STEFAN GESCHKE, *Metric Baumgartner theorems and Universality*

5:40– 5:55 p.m. CHUAN LIU, *Some results on paratopological groups*

6:00– 6:15 p.m. FREDERIC MYNARD, *Differentiability as Continuity*

Geometric Topology/Geometric Group Theory Special Session Cone B

4:40– 4:55 p.m. DAMIAN OSAJDA, *Boundaries of right-angled hyperbolic buildings*

5:00– 5:15 p.m. CHRIS HRUSKA, *Local connectivity and spaces with isolated flats*

5:20– 5:35 p.m. JEAN-FRANCOIS LAFONT, *Actions of hyperbolic groups on topological disks*

5:40– 5:55 p.m. KEVIN WORTMAN, *Quasi-isometries of arithmetic groups over function fields*

Continuum Theory Special Session Claxton Room

4:40– 4:55 p.m. CARLOS ISLAS, *A 2-equivalent continuum with the property of Kelley*

5:00– 5:15 p.m. WLODZIMIERZ CHARATONIK, *Recognizing Kelley continua in inverse limits*

5:20– 5:35 p.m. ROBBIE BEANE, *Approximating Kelley Continua By Rays*

Dynamical Systems Special Session Kirkland Room

4:40– 4:55 p.m. LORENZO SADUN, *Pattern-equivariant cohomology with integer coefficients*

5:00– 5:15 p.m. RICHARD J BROWN, *The algebraic entropy of character automorphisms of a rank 2 free group*

5:20– 5:35 p.m. MICHAEL SULLIVAN, *Transverse Foliations to nonsingular Morse-Smale flows on the 3-sphere and Bott-integrable Hamiltonian systems*

5:40– 5:55 p.m. PETRA SINDELAROVA, *An example on movable approximations of an invariant set under a continuous flow in dimension 3*

FRIDAY, MARCH 24

8:30– 8:40 a.m. NEWS, Auditorium

PLENARY TALK Auditorium

8:40– 9:30 a.m. MIKE DAVIS, *Coxeter groups as a source of examples in geometric group theory*

SEMI-PLENARY TALKS (two parallel lectures)

9:35– 10:00 a.m. DENNIS BURKE, *Quotient spaces and D-spaces* Cone A

9:35– 10:00 a.m. ELZBIETA POL, *The non-existence of common models for some classes of higher-dimensional hereditarily indecomposable continua* Cone B

10:00–10:30 REFRESHMENTS Cone C

SEMI-PLENARY TALKS (two parallel lectures)

10:30– 10:55 a.m. ANDRZEJ NAGÓRKO, *Characterization and topological rigidity of Nobeling manifolds* Cone A

10:30– 10:55 a.m. PATRICIA PELLICER, *1/2–Homogeneity in Continua* Cone B

SPECIAL SESSIONS (four parallel sessions)

General/Set–theoretic Topology Special Session Cone A

11:00 –11:15 a.m. JENNIFER BROWN, *Remote points under CH*

11:20– 11:35 a.m. AKIRA IWASA, *Metacompactness and Cohen forcing*

11:40 – 11:55 a.m. MICHAEL HRUSAK, *Pseudocompactness of hyperspaces*

Geometric Topology/Geometric Group Theory Special Session Cone B

11:00–11:15 a.m. PIOTR NOWAK, *Averaging Property A: non–A examples and weak Folner function*

11:20–11:35 a.m. DMITRIY SONKIN, *Compression of uniform embeddings into Hilbert space*

11:40–11:55 a.m. MATIJA CENCELJ, *Extension of maps to nilpotent spaces*

Continuum Theory Special Session Claxton Room

11:00– 11:15 a.m. JANUSZ R. PRAJS, *Filament Local Product Structures in Homogeneous Continua*

11:20– 11:35 a.m. PIOTR MINC, *An uncountable collection of dendroids mutually incomparable by continuous functions*

Dynamical Systems Special Session Kirkland Room

11:00– 11:15 a.m. KAMEL HADDAD, *Weak Product Recurrence Does Not Imply Distality*

11:20– 11:35 a.m. WILLIAM OTT, *Weak Product Recurrence Does Not Imply Distality*

11:40 – 11:55 a.m. FERNANDA BOTELHO, *Single Pulse Solutions for Oscillatory Coupling Functions in Neural Networks*

12:00– 1:55 LUNCH

12:00– 1:30 Steering Committee Meeting Alexander Room

PLENARY TALK

1:55–2:45 p.m. MICHAL MISIUREWICZ, *Rotation sets of billiards with one obstacle*

SPECIAL SESSIONS (four parallel sessions)

General/Set–theoretic Topology Special Session Cone A

2:50– 3:05 p.m. ALAN DOW, *Small Diagonal and PFA*

3:10– 3:25 p.m. KERRY SMITH, *Closed Discrete Subspaces in First Countable Spaces*

3:30– 3:45 p.m. TODD EISWORTH, *More consistency results with CH*

3:50– 4:05 p.m. GARY GRABNER, *Relative Semi–metrics*

Geometric Topology/Geometric Group Theory Special Session Cone B

2:50– 3:05 p.m. MAX FORESTER, *High dimensional filling invariants of groups*

3:10– 3:25 p.m. DONGWEN QI, *A Note on Parabolic Subgroups of a Coxeter Group*

3:30– 3:45 p.m. PAUL FABEL, *On Topological Fundamental Groups*

3:50– 4:05 p.m. IVONNE J ORTIZ, *Lower algebraic K–theory of hyperbolic 3–simplex reflection groups*

Continuum Theory Special Session Claxton Room

- 2:50– 3:05 p.m. VERONICA MARTINEZ-DE-LA-VEGA, *Open Problems on Dendroids*
3:10– 3:25 p.m. VAN NALL, *Centers and shore sets of a dendroid*
3:30–3:45 p.m. JORGE M. MARTINEZ–MONTEJANO, *Open problems on hyperspaces of dendroids*

Dynamical Systems Special Session Kirkland Room

- 2:50– 3:05 p.m. STEWART BALDWIN, *Characterizing Tent-like maps*
3:10– 3:25 p.m. SONJA STIMAC, *On the inverse limits of tent maps with critical points approaching periodic points*
3:30– 3:45 p.m. JAMES KEESLING, *On Ingram's Conjecture*
3:50– 4:05 p.m. JUDY KENNEDY, *Applications of inverse limits to models in economics*

4:10–4:40 REFRESHMENTS Cone C

SPECIAL SESSIONS (four parallel sessions)

General/Set–theoretic Topology Special Session Cone A and Alexander Room
(Nota Bene: This afternoon special session has two sequences of parallel talks)

- 4:40–4:55 p.m. JUDITH ROITMAN, *Subspaces of the countable box product of ω_1^ω*
Cone A
4:40–4:55 p.m. ROBERT RAPHAEL, *Spaces for which the Hewitt realcompactification commutes with the P –space coreflection (Part 1)* Alexander Room
5:00–5:15 p.m. SCOTT WILLIAMS, *The topology of metric spaces II* Cone A
5:00–5:15 p.m. GRANT WOODS, *Spaces for which the Hewitt realcompactification commutes with the P –coreflection (Part 2)* Alexander Room
5:20– 5:35 p.m. NATHAN A. CARLSON, *Non–regular power homogeneous spaces*
Cone A
5:20– 5:35 p.m. ASLANBECK NAZIEV, *On a problem of H. Buchwalter* Alexander Room

Geometric Topology/Geometric Group Theory Special Session Cone B

- 4:40– 4:55 p.m. ATISH MITRA, *Dimension zero at all scales*
5:00– 5:15 p.m. VESKO VALOV, *On the Hurewicz dimension–raising maps theorem*
5:20– 5:35 p.m. MURAT TUNCALI, *Controlled Hahn–Mazurkiewicz Theorem and Some New Dimension Functions of Peano continua*

Continuum Theory Special Session Claxton Room

- 4:40– 4:55 p.m. PAUL BANKSTON, *Identifying a topological graph using first–order lattice properties*
5:00– 5:15 p.m. DALE DANIEL, *Metrizible Fiberings of Continuous Images of Ordered Compact Hausdorff Spaces*

5:20– 5:35 p.m. CHRISTOPHER MOURON, *Continua that admit expansive Z^{n+1} actions but do not admit expansive Z^n actions*
5:40–5:55 Andrew Lelek, *Some old problems revisited*

Dynamical Systems Special Session Kirkland Room

4:40– 4:55 p.m. SUZANNE HRUSKA, *Rigorous Numerics and Polynomial Skew Products of C^2*

5:00– 5:15 p.m. GRZEGORZ GRAFF, *Minimal number of periodic points for smooth self-maps of compact manifolds*

5:20– 5:35 p.m. EMILY GAMBER, *Expansive Cellular Automata*

7:00– 10:00 CATERED RECEPTION CONE A& B

SATURDAY, MARCH 25

8:30– 8:40 a.m. NEWS, Auditorium

PLENARY TALK, Auditorium

8:40– 9:30 a.m. ALEXANDER DRANISHNIKOV, *Embedding of metric spaces into the product of trees*

SEMI-PLENARY TALKS (two parallel lectures)

9:35– 10:00 a.m. FRANCIS JORDAN, *Connected partitions of continua into compacta*
Cone A

9:35– 10:00 a.m. JENNIFER SCHULTENS, *Destabilizing amalgamated Heegaard Splittings* Cone B

REFRESHMENTS CONE C **10:00–10:30**

SEMI-PLENARY TALKS (two parallel lectures)

10:30– 10:55 a.m. RAUSHAN BUZYAKOVA, *Function Spaces over Generalized Ordered Topological Spaces* Cone A

10:30– 10:55 a.m. HENK BRUIN, *Cutting times and subcontinua of unimodal inverse limit spaces* Cone B

General/Set-theoretic Topology Special Session Cone A

11:00–11:15 a.m. GARY GRUENHAGE, *Small dense sets in products*

11:20–11:35 a.m. WILLIAM FLEISSNER, *Which ordinals have coarser connected Urysohn topologies?*

11:40– 11:55 a.m. PAUL LARSON, *Irreducibility of product spaces with finitely many points removed*

Geometric Topology/Geometric Group Theory Special Session Cone B

11:00– 11:15 a.m. JAKA SMREKAR, *Splitting and coherence of periodic homotopy idempotents*

11:20– 11:35 a.m. ALES VAVPETIC, *On the mod p cohomology of $BPU(p)$*

11:40– 11:55 a.m. JASON BEHRSTOCK, *Dimension and rank of mapping class groups*

Continuum Theory Special Session Claxton Room

- 11:00– 11:15 a.m. DAVID RYDEN, *The composant equivalence relation of an indecomposable continuum*
11:20– 11:35 a.m. MARCUS MARSH, *Inverse Limits of Real Projective Spaces and the Fixed Point Property*
11:40– 11:55 a.m. BENJAMIN ESPINOZA, *Inverse Limits and Whitney Preserving Maps*

Dynamical Systems Special Session Kirkland Room

- 11:00– 11:15 a.m. DAN MAULDIN, *Homeomorphic product measures on the Cantor space*
11:20– 11:35 a.m. ANDY YINGST, *Homeomorphic Product Measures on Cantor Space*

12–1:55 LUNCH

PLENARY TALK, Auditorium

- 1:55– 2:45 a.m. JAN VAN MILL, *Homogeneous spaces and transitive actions by Polish groups*

Special Sessions (four parallel sessions)

General/Set–theoretic Topology Special Session Cone A

- 2:50– 3:05 p.m. PAUL SZEPTYCKI, *ZFC examples of submaximal spaces*
3:10– 3:25 p.m. STRASHIMIR G. POPVASSILEV, *On some versions of the point–open game*
3:30– 3:45 p.m. DAVID LUTZER, *Representability of BCO and Moore spaces*
3:50– 4:05 p.m. PHILLIP ZENOR, *Continuously Urysohn Spaces*

Geometric Topology/Geometric Group Theory Special Session Cone B

- 2:50– 3:05 p.m. SAM NELSON, *Quandle difference invariants*
3:10– 3:25 p.m. DAN MARGALIT, *Cohomological dimension of the Torelli subgroup of $Out(F_n)$*
3:30– 3:45 p.m. GREG BELL, *Asymptotic dimension of a curve graph and some mapping class groups*
3:50– 4:05 p.m. DAN GURALNIK, *Coarse decompositions for boundaries of cubulated $CAT(0)$ spaces*

Continuum Theory Special Session Claxton Room

- 2:50– 3:05 p.m. BEVERLY BRECHNER, *Mathematics and Parkinson's Disease*
3:10– 3:25 p.m. MICHEL SMITH, *On non–metric indecomposable and hereditarily indecomposable subcontinua of products of long Hausdorff arcs*
3:30– 3:45 p.m. JAMES KEESLING, *The Stone–Cech Compactification of Paracompact Spaces*

Dynamical Systems Special Session, Kirkland Room

- 2:50– 4:05 p.m. NONE

3:20–3:50 REFRESHMENTS Cone C

Special Sessions (four parallel sessions)

General/Set–theoretic Topology Special Session Cone A

4:40– 4:55 p.m. W. W. COMFORT, *Extremal Pseudocompact Abelian Groups Are Compact Metrizable*

5:00– 5:15 p.m. M. D. GUAY, *A Hahn–Banach Theorem in Non–Compact Convexity Theory*

5:20– 5:35 p.m. MAXIM R. BURKE, *Invariant Borel liftings for category algebras of Baire groups*

5:40 –5:55 p.m. BRAD BAILEY, *I–weight of compact, locally compact and paracompact LOTS*

Geometric Topology/Geometric Group Theory Special Session Cone B

NONE

Continuum Theory Special Session Claxton Room

4:40– 4:55 p.m. THELMA WEST, *The Spans of Five Star–Like Simple Closed Curves*

5:00– 5:15 p.m. LEX OVERSTEEGEN, *On finitely Suslinian compacta*

Dynamical Systems Special Session Kirkland Room

NONE

7:00– 10:00 Pizza Party