

**Fifth International Fez Conference on Commutative Algebra and Applications**  
**June 23 - 28 , 2008, Fez, Morocco**

**Program**

**Day One: Monday, June 23, 2008**

10:00 – 10:30    Opening

10:30 – 11:00    Coffee Break

**Bouvier's Session I. Chair: S. Wiegand**

11:00 – 11:40    On  $v$ -domains: a survey  
**M. Fontana** (Università di Roma Tre, Italy)

11:45 – 12:15    Chain conditions (a survey)  
**P.-J. Cahen** (Université Paul Cézanne, France)

12:20 – 12:40    Bouvier's contribution to dimension theory  
**M. Khalis** (FST Settat, Morocco)

13:00 – 15:00    Lunch Break

**Bouvier's Session II. Chair: B. Olberding**

15:00 – 15:30     $w$ -Divisoriality in polynomial rings  
**S. Gabelli** (Università di Roma Tre, Italy)

15:35 – 16:05    Constituent groups of Clifford semigroups arising from  $t$ -closure  
**S. Kabbaj** (KFUPM, Saudi Arabia)

16:10 – 16:30     $t$ -Class semigroups of Noetherian domains  
**A. Mimouni** (KFUPM, Saudi Arabia)

16:30 – 16:45    Coffee Break

**Bouvier's Session III. Chair: I. Swanson**

16:45 – 17:15    On the Hochster dual of a topological space  
**O. Echi** (Univ. of Tunis, Tunisia)

17:20 – 17:40    Bouvier's contribution to multiplicative ideal theory  
**D. Nour Elabidine** (FST Mohamadia, Morocco)

17:45 – 18:05    On the prime ideal structure of Bhargava rings  
**L. Izelgue** (Univ. of Marrakech, Morocco)

18:10 – 18:30    Universally catenarian domains of the type  $A+I$   
**N. Jarboui** (King Faisal Univ., Saudi Arabia)

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#### Day Two: Tuesday, June 24, 2008

Chair: **L. Salce**

- 08:30 – 09:10 A general theory of invertible ideals & application to Prüfer-like monoids & domains  
**F. Halter-Koch** (University of Graz, Austria)
- 09:15 – 09:55 On modules of bounded projective and flat dimension over commutative rings  
**S. Bazzoni** (Università di Padova, Italy)
- 10:00 – 10:30 Almost clean rings and arithmetic rings  
**F. Couchot** (Université de Caen, France)
- 10:30 – 11:00 Coffee Break

Chair: **S. Glaz**

- 11:00 – 11:40 Rings with elementary Artinian modules  
**A. Kaidi** (University of Almeria, Spain)
- 11:45 – 12:15 Modules admit Cousin complexes with finite cohomologies  
**M. T. Dibaei** (Tarbiat MuallemUniversity & IPM, Tehran, Iran)
- 12:20 – 12:40 Sufficient condition to resolve Costa's first conjecture  
**N. Mahdou** (FST Fez, Morocco)
- 12:50 – 14:15 Lunch Break
- 14:20 – 14:50 Posters Session: **C. Bakkari, D. Bennis, L. El Fadil, A. Jhilal, K. Ouarghi**

Chair: **V. Barucci**

- 15:00 – 15:30 Straight rings  
**G. Picavet** (Université Blaise Pascal, France)
- 15:35 – 16:05 Integrally closed overrings of  $\mathbb{Z}[X]$   
**F. Tartarone** (Università di Roma Tre, Italy)
- 16:10 – 16:30 A generalization of stable domains  
**G. Picozza** (Université Paul Cézanne, France)
- 16:30 – 16:45 Coffee Break

Chair: **F. Halter-Koch**

- 16:45 – 17:15 Integer-valued polynomial rings and  $t$ -linked extensions  
**J. Elliot** (California State University CI, USA)
- 17:20 – 17:40 Characterization of rings with only finitely many subrings  
**M. Picavet** (Université Blaise Pascal, France)
- 17:45 – 18:05 Integer valued polynomials in several variables :  $v$ -orderings and bases  
**S. Evrard** (Université de Picardie, France)
- 18:10 – 18:30  $v$ -Ordering sequences and countable sets  
**Y. Fares** (Université de Picardie, France)

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**Day Three: Wednesday, June 25, 2008**

**Chair: S. Yassemi**

- 8:30 – 9:10** Monoids of modules  
**R. Wiegand** (University of Nebraska, USA)
- 9:15 – 9:55** Simple hypersurface singularities via totally reflexive modules  
**L.W. Christensen** (Texas Tech. University, USA)
- 10:00 – 10:30** Betti numbers of transversal monomial ideals  
**Rahim Zaare Nahandi** (University of Tehran, Iran)
- 10:30 – 11:00** Coffee Break

**Chair: S. Bazzoni**

- 11:00 – 11:40** Integer-valued polynomials on a subset of a valued field  
**J.-L. Chabert** (Université de Picardie, France)
- 11:45 – 12:15** Indecomposability of polynomials via Jacobian matrix  
**S. Najib** (Max-Plank Institute-Bonn, Germany)
- 12:20 – 12:40** André-Quillen homology and classes of arithmetic rings  
**C. Ionescu** (Institute of Mathematics Simion Stoilow, Romania)

**Visit + Dinner**

- 16:00 – 19:00** Visit of Fez Medina
- 19:00 – 22:00** Traditional Dinner

**Two Ph.D. Dissertation Defenses**

- 15:00 – 16:45** Contents, Gaussian Polynomials and Prüfer Properties  
**C. Bakkari** (FST, Univ. of Fez, Morocco)
- 17:00 – 18:45** Gorenstein Homological Dimensions  
**D. Bennis** (FST, Univ. of Fez, Morocco)

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**Day Four: Thursday, June 26, 2008**

**Chair: M. Fontana**

- 08:30 – 09:10** Algebraic entropy of endomorphisms over local one-dimensional domains  
**P. Zanardo** (Università di Padova, Italy)
- 09:15 – 09:55** Derivations, formal fibers and bad Noetherian rings  
**B. Olberding** (New Mexico State University, USA)
- 10:00 – 10:30** On pseudo-almost valuation domains  
**A. Badawi** (American University of Sharjah, UAE)
- 10:30 – 11:00** Coffee Break

**Chair: P.-J. Cahen**

- 11:00 – 11:40** Gaussian properties and ring constructions  
**S. Glaz** (University of Connecticut, USA)
- 11:45 – 12:15** Over a rank-one non-DVD  $V$  the ring  $V[[X]]_{V,(0)}$  is never a Prüfer domain  
**B. G. Kang** (Pohang University of Science and Technology, Korea)
- 12:20 – 12:40** Generic bounds for tight closure and Frobenius closure  
**H. Fischbacher-Weitz** (University of Osnabrück, Germany)
- 13:00 – 15:00** Lunch Break

**Chair: R. Wiegand**

- 15:00 – 15:30** The techniques of idealization  
**M. Ali** (Sultan Qaboos University, Oman)
- 15:35 – 16:05** On the Buchsbaumness of the associated graded ring of semigroup rings  
**M. D'Anna** (Università di Catania, Italy)
- 16:10 – 16:30** Induced modules by an endomorphism of f.g. modules over commutative rings  
**I. Akharraz** (Faculty of Taza, Morocco)
- 16:30 – 16:45** Coffee Break

**Chair: T. Lucas**

- 16:45 – 17:15** Betti numbers of the associated graded rings of certain monomial curves  
**Rashid Zaare-Nahandi** (IASBS - Zanjan, Iran)
- 17:20 – 17:40** Generic fiber of power series ring extensions  
**T. Dumitrescu** (University of Bucharest, Romania)
- 17:45 – 18:05** Artinian subrings of a product of zero-dimensional rings  
**D. Karim** (Faculty of Nador, Morocco)
- 18:10 – 18:30** Cofiniteness & associated primes of local cohomology modules over Noetherian rings  
**R. Naghipour** (University of Tabriz, Iran)

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**Day Five: Friday, June 27, 2008**

**Chair: J.-L. Chabert**

- 8:30 – 9:10** Transfinite self-idealizations and commutative rings of triangular matrices  
**I. Salce** (Univerità di Padova, Italy)
- 9:15 – 9:55** Geometric deformations of strong semistability and the localization problem in tight closure theory  
**H. Brenner** (Universität Osnabrück, Germany)
- 10:00 – 10:30** On Zariski-like topologies for modules over commutative rings  
**J. Abuhlail** (KFUPM, Saudi Arabia)
- 10:30 – 11:00** Coffee Break

**Chair: O. Echi**

- 11:00 – 11:40** A theorem for numerical semigroups and local rings  
**V. Barucci** (Università di Roma I, Italy)
- 11:45 – 12:15** Properties of lexsegment ideals  
**V. Ene** (Ovidius University of Constanta, Romania)
- 12:20 – 12:40** Chain conditions in rings of the form  $A+(X_1, \dots, X_n)B[X_1, \dots, X_n]$   
**S. Hizem** (Faculté des Sciences de Monastir, Tunisia)

**Lunch + Visit**

- 13:00 – 16:00** Barbecue Lunch in the Cedar Forest
- 16:00 – 19:00** Traditional Visit of Azrou (and neighborhoods), a Berber town nestling in Middle Atlas Mountains, famous for its woodcarvings

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**Day Six: Saturday, June 28, 2008**

**Chair: S. Kabbaj**

- 8:30 – 9:10** Integral closure – a new algorithm  
**I. Swanson** (Reed College, Portland, USA)
- 9:15 – 9:55** Local cohomology for modules finite over a local homomorphism  
**S. Yassemi** (University of Tehran & IPM, Iran)
- 10:00 – 10:30** Trace properties in rings with zero divisors  
**T. G. Lucas** (University of North Carolina Charlotte, USA)
- 10:30 – 11:00** Coffee Break

**Chair: S. Gabelli**

- 11:00 – 11:40** Prime ideals in power series rings and relations among spectra  
**S. Wiegand** (University of Nebraska Lincoln, USA)
- 11:45 – 12:15** Self-distributive groupoids from an algebraic point of view  
**M. Elhamdadi** (University of South Florida, USA)
- 12:20 – 12:40** On finiteness of chains of intermediary rings  
**M. Ben Nasr** (Faculty of Sciences of Sfax, Tunisia)