



Austrian-American Educational Commission

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Intercountry Lectureship Questionnaire

Name: James Sellers

Grant Period: March – June, 2012

U.S. Institution: Penn State University

Austrian Host Institution: Johannes Kepler University and the Research Institute for Symbolic Computation (RISC), Linz

e-mail address: sellersj@math.psu.edu

Academic Discipline: Mathematics

Areas of Research: Number theory, enumerative combinatorics

Possible Lecture Topics: Partition function identities and congruences, combinatorics via tilings

Lecturing in the following languages: English

Academic Training and Degrees: B.S. and Ph.D., Mathematics

Previous Positions: Professor, Cedarville University (Ohio, USA)

Publications (selected):

Radu, S. and Sellers, J. A., Parity Results for Broken k -Diamond Partitions and $(2k+1)$ -Cores, *Acta Arithmetica* **146** (2011), 43–52

Andrews, G. E., Hirschhorn, M. D., and Sellers, J. A., Arithmetic Properties of Partitions with Even Parts Distinct, *Ramanujan Journal* **23** (2010), 169–181

Little, D. P. and Sellers, J. A., A Tiling Approach to Eight Identities of Rogers, *European Journal of Combinatorics* **31** (2010), 694–709

Keister, D., Sellers, J. A., and Vary, R., Some Arithmetic Properties of Overpartition k -tuples, *INTEGERS* **9** (2009), Article A17

Rødseth, Ø., Sellers, J. A., and Tverberg, H., Enumeration of the Degree Sequences of Non-Separable Graphs and Connected Graphs, *European Journal of Combinatorics* **30** (2009), 1301–1317

Little, D. P. and Sellers, J. A., New Proofs of Identities of Lebesgue and Göllnitz via Tilings, *Journal of Combinatorial Theory, Series A* **116** (2009), 223–231

Benjamin, A. T., Plott, S., and Sellers, J. A., Tiling Proofs of Recent Sum Identities Involving Pell Numbers, *Annals of Combinatorics* **12** (2008), 271–278

Hopkins, B. and Sellers, J. A., Exact Enumeration of Garden of Eden Partitions, *INTEGERS* **7**, no. 2 (2007), Article A19

Hirschhorn, M. D. and Sellers, J. A., On Recent Congruence Results of Andrews and Paule for Broken k -Diamonds, *Bulletin of the Australian Mathematical Society* **75** (2007), 121–126

Andrews, G. E. and Sellers, J. A., On Sloane's Generalization of Non-Squashing Stacks of Boxes, *Discrete Mathematics* **307**, no. 9–10 (2007), 1185–1190

Sloane, N. J. A. and Sellers, J. A., On Non-Squashing Partitions, *Discrete Mathematics*, **294** (2005), 259–274

Hirschhorn, M. D. and Sellers, J. A., A Different View of m -ary Partitions, *Australasian Journal of Combinatorics*, **30** (2004), 193–196

Sellers, J. A., Extending a Recent Result of Santos on Partitions into Odd Parts, *INTEGERS*, **3** (2003), Article A4

Rødseth, Ø. and Sellers, J. A., Binary Partitions Revisited, *Journal of Combinatorial Theory, Series A*, **98** (2002), 33–45

Hirschhorn, M. D. and Sellers, J. A., Some Amazing Facts About 4-cores, *Journal of Number Theory*, **60**, no. 1 (1996), 51–69