

# Differential Algebra and Related Computer Algebra University of Catania, March 26–29, 2008

An International Conference in Memory of Giuseppa Carrà-Ferro

## Second Announcement

In agreement with the Department of Mathematics and Computer Science of the University of Catania, we are organizing an international conference on *Differential Algebra and Related Computer Algebra* in memory of Giuseppa Carrà-Ferro, to be held in Catania, Italy on March 26–29, 2008.

Giuseppa Carrà-Ferro (1952–2007), affectionately known as Pina in close circles, died of cancer on March 22, 2007. Professor Carrà-Ferro is remembered for her contributions to Differential Algebra (differential spectrum and varieties, Kolchin schemes, differential Gröbner bases, differential dimension and multiplicity, automated theorem-proving in differential geometry, differential rankings, characteristic sets, and differential resultants) and to Computer Algebra (super  $G$ -bases, involutive division, and graph algorithms).

The conference will have as its primary focus a Workshop on Differential Algebra, consisting of seven 50-minute invited talks on differential and difference algebra and their applications. A secondary focus will be a conference day devoted to commutative, combinatorial, and computer algebra. Both foci relate to the research interest of Carrà-Ferro. In addition there will be contributed 25-minute talks open to the research community on the above topics.

As of this announcement, the following talks (titles tentative) will be given at the Workshop:

- François Boulier, Differential elimination and reduction of biochemical networks.
- Xiao-Shan Gao, Characteristic set method for difference and differential-difference polynomial systems.
- Evelyne Hubert, Algebra of differential invariants of Lie group actions.
- Alexander Levin, Generalized Gröbner bases and multivariate differential dimension polynomials.
- Bud Mishra, Algebra, automata, algorithms, biology and beyond.
- Michael Singer, Differential Galois theory of difference equations.
- Volker Weispfenning, Logical methods in differential algebra.

Contributed talks can be unpublished papers with new results, or summary reports on recently published papers. Interested speakers are required to submit a brief abstract (limited to 2 pages) to the Program Committee via the conference website below. Due to a reorganization of the conference program, we have extended the deadline to February 4, 2008. Authors will be notified on or before February 13, 2008.

The abstracts of the invited lectures and other contributions will appear in a special issue of *Le Matematiche* and will be distributed at the conference. No other proceedings is planned at this time.

### Program Committee

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Please visit the conference website <http://www.dmi.unict.it/carrasympoium> for updates.

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