



## **23 European Symposium on Computer Aided Process Engineering: A multiproduct batch plant design model incorporating production planning and scheduling decisions ... (Computer Aided Chemical Engineering)**

*Yanina Fumero, M. Susana Moreno, Gabriela Corsano, Jorge M. Montagna*

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The goal of this work is to propose a multiperiod mixed-integer linear programming model for the design and production planning of multistage multiproduct batch plants integrating, simultaneously, scheduling decisions. The time horizon consists of several periods in which deterministic variations due to seasonal or market fluctuations like prices, products demand limits, costs, and raw materials availability, are taken into account. The plant operates using production campaigns along each time period. The objective function maximizes the net present value considering incomes from product sales and, investment, resources, inventories, operation, waste disposal and late delivery penalties costs. The proposed model allows not only finding the optimal plant structure (unit sizes and its duplication in parallel in each stage), but also the production planning in every time period as well as number and optimal sequence of batches in each campaign.

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