1. PREFACE

Vorwort

In this year the research topics worked in the Institute have been expended siginificantly entering the field of organic semiconductor transistors, circuits and interface to the bio-life sciences. Several important papers are published and members of the Institute gave well received lectures in the international conferences and meetings on the topics of organic transistors and organic chips. From our point of view, the next big mission of the organic semiconductor devices will be the interfacing of two research areas;
Information Technology (IT) on one side and the Bio-Lifesciences on the other side.

Since organic semiconductors and organic dielectrics can be versatile and chemically flexible to manipulate, the interface to bio-lifescience is quite conceivable. This interface will be opening up the the possibility of truly connecting living organisms, nerve cells and in due course the human organs with information technology related devices and circuits. The future implications of such a development is far reaching and can be enabling a truly embedded cybernetics.
A National Research Network funded by the Austrian Science Foundation have started 2006 and will be dealing with organic transistors as task of our Institute.
Several projects have finished and many students have received their diplomas and doctorates.
Last but not least, in December 2005 the third spin off corporation of our Institute “Plastic Electronic GesmbH” has been created and will be incubating during the next 15 months within the Tech2B programme. The company will be positioning itself in the field of organic transistor devices, chips and applications around them.

Linz, January 2006

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