

ISSTT 2008

**19th International Symposium on
Space Terahertz Technology**

April 28-30, 2008
Groningen, The Netherlands

Proceedings

**Part 1
Oral contributions**

SRON

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Research

TU Delft



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19th INTERNATIONAL SYMPOSIUM

ON SPACE TERAHERTZ TECHNOLOGY

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Edited by Wolfgang Wild



Preface

The 19th International Symposium on Space Terahertz Technology (ISSTT2008) was held from April 28 to 30, 2008, in the historic main building of the University of Groningen, the Netherlands. It was attended by about 170 scientists and engineers from 17 countries. Almost a quarter (23%) was students working in the field of Terahertz technology.

The Symposium organizers from SRON Netherlands Institute for Space Research, TU Delft, and the University of Groningen want to thank all participants and authors for making this symposium a scientifically interesting and very enjoyable event.



The Academy building of the University of Groningen where the ISSTT2008 Symposium was held from 28-30 April 2008.

A total of 123 scientific contributions have been made to the symposium, 72 as oral presentations and 51 as posters. These proceedings contain all papers that were submitted by 15 October 2008. The accepted abstract was used in case the paper was not available or the author expressed his preference for publication of the abstract.

The number of presentations per category is the following:

Terahertz Systems	5 oral presentations + 2 posters
HEB Mixers	6 oral presentations + 6 posters
SIS Mixers	7 oral presentations + 5 posters
Herschel-HIFI	6 oral presentations + 1 poster
Direct Detectors	6 oral presentations + 6 posters
THz Receivers / Backends	15 oral presentations + 5 posters
Local Oscillators	5 oral presentations + 7 posters
Schottky Mixers	5 oral presentations + 3 posters
ALMA	7 oral presentations + 6 posters
Novel Devices & Measurements	4 oral presentations + 6 posters
Optics & Components	6 oral presentations + 4 posters

The organizers would like to thank the Scientific Organizing Committee for the abstract review and the Local Organizing Committee for taking care of the local arrangements.

Wolfgang Wild

19th International Symposium on Space Terahertz Technology (ISSTT2008)

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Chair: Neal Erickson

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Session 8

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Chair: Imran Mehdi

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