

# **Diamond Electronics and Biotechnology— Fundamentals to Applications V**

**MATERIALS RESEARCH SOCIETY**  
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# **Diamond Electronics and Biotechnology—Fundamentals to Applications V**

Symposium held November 28–December 2, 2011, Boston, Massachusetts, U.S.A.

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## PREFACE

Symposium N, “Diamond Electronics and Biotechnology – Fundamentals to Applications V” was held at the 2011 MRS Fall Meeting in Boston, Massachusetts, November 28 – December 2, 2011. This volume contains submitted, peer-reviewed articles of the rapid advances in these fields. The scope of this meeting stretched from fundamentals to applications of all kinds of diamond, be they single crystal to nanocrystalline, bulk film to nanoparticle. New forms and applications of carbon such as graphene and single photon emission were given particular attention.

The attendance of this series has been consistently high, due to the excellent quality and international nature of the contributions, as well as the choice of invited speakers. New areas such as microplasma arrays from CVD were placed alongside such standards as diamond growth and electrochemistry.

In this symposium, 10 invited oral presentations, 49 contributed oral presentations and 46 posters were presented representing more than 15 countries. We would like to thank all those who contributed to making this diverse and exciting program, especially the student members.

The organizers express their gratitude to the broad spectrum of international members of the scientific committee who actively contributed to the refereeing of abstracts and the construction of such a dynamic program.

The symposium was supported by the following sponsors, to whom we are very grateful:

- Advanced Diamond Technologies Inc.
- Applied Diamond Inc.
- CEA, LIST, France
- Hasselt University, Belgium
- Seki Technotron Inc.
- Sp3 Inc.

We would also like to thank the MRS staff members for their highly professional support and encouragement throughout the process of bringing this symposium to fruition, its smooth running, and the publication of this proceedings volume.

Philippe Bergonzo  
Richard B. Jackman  
Kian Ping Loh  
Greg N. Swain  
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April 2012

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