

the AIST diamond device team, and the JSPS funding, I had the opportunity to work in a wonderful country, Japan, and with one of the best Japanese teams in the diamond field.

Diamond, the ultimate semiconductor for energy conversion systems, still at the Research & Development stage, is intensively investigated by several research groups over the world. Over the last 20 years, the technological progress achieved in diamond growth & doping, and its surface treatment, allows today to fabricate various electronics devices (Schottky diode, field effect transistors, bipolar transistors, Metal Oxide Semiconductor capacitor, PIN diodes, etc). Nevertheless, these devices still suffer from several imperfections that must be corrected in order to surpass GaN and SiC-based devices (the main wide bandgap material industrialized today) and making the most of the superior electrical and thermal properties of diamond. My research activities attempt to contribute to this effort by investigating and enhancing the electrical performance of diamond devices. These activities cover a wide field, ranging from solid state physics, diamond growth, devices technologies investigation using TCAD (Technology Computer Aided Design) simulators, devices fabrication to characterization.

- Language used (使用言語): English

- Lecture format (講演形式): **Power point presentation and experiment**

◆ Lecture time (講演時間) 70 min (分), Q&A time (質疑応答時間) included in lecture time min (分)

◆ Lecture style (ex.: used projector, conducted experiments)

(講演方法 (例: プロジェクター使用による講演、実験・実習の有無など))

Power point presentation and experiment

◆ Interpretation (ex.: assistance by accompanied person, provided Japanese explanation by yourself) (通訳 (例: 同行者によるサポート、講師本人による日本語説明))

◆ Name and title of accompanied person (同行者 職・氏名)

◆ Other note worthy information (その他特筆すべき事項):

- Impressions and opinions from accompanied person (同行者の方から、本事業に対する意見・感想等がありましたら、お願いいたします。):