Diamond Science & Technology
Student Handbook
University of Warwick
2016/2017
Cover Image: High pressure, high temperature synthetic diamond grit

Photograph Credit - Dr. Jonathan Newland
Welcome to the DST CDT

The EPSRC Centre for Doctoral Training in Diamond Science & Technology (DST) brings together leading academics from eight partner universities and industrialists from more than 30 companies, to deliver research excellence and a unique, comprehensive training package in DST.

We would like to welcome you to the centre and hope that your time here will be productive and invaluable to your future career in research or diamond related industries.

We hope that by working together, you can build on your collective strengths, develop research skills and take advantage of the network of professional contacts you will create through this experience.

We look forward to welcoming you onto our programme. Please let us know if you have any questions.

Prof. Mark Newton (University of Warwick)
Diamond Science & Technology Centre Director
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DST Points of Contact

Please contact us if you have any questions.

We will be happy to advise you or point you in the right direction.

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Prof Alan Kemp
Strathclyde Lead
alan.kemp@strath.ac.uk
Life at Warwick

The University of Warwick boasts the largest arts centre on any campus outside of London. The Arts Centre houses two theatres, a concert hall, a cinema and an art gallery. The venue showcases some of the best in UK and international drama, comedy, dance, art, film and live music - from contemporary to classical.

Warwick’s Students’ Union is one of the biggest in the UK. With great food, amazing entertainment and over 300 sports clubs and societies, getting involved with the union is a great way to meet new people at Warwick. The postgraduate community is represented by both a dedicated Postgraduate Officer and the Postgraduate Association.

Warwick University has a great location in the heart of England and is easy to reach via train, car or air. Coventry is about 15 minutes away, Birmingham, and the historic towns of Kenilworth, Warwick, Stratford upon Avon and Leamington Spa, are in easy reach. London is only 1 hour by train from Coventry Station.

Sport at Warwick

Sporting life is great at Warwick whatever your interest. Warwick Sport supports 73 sports clubs as well as organising a wide range of exercise classes and courses.

There are excellent facilities including a swimming pool, gym, climbing wall, squash courts and playing fields.
Warwick Library

Learning at Warwick is supported by an excellent Library as well as the Learning Grid, which offers wireless access points, networked PCs, and many other resources.

The PG-Hub

The Postgraduate Hub is a new work and study facility for all postgraduate taught and research students. Located on the ground floor of Senate House, the PG Hub represents a £450k investment in postgraduate provision at the University.

The space comprises a large, open-plan atrium area with comfortable seating; an IT work area with fixed PCs; a number of small rooms equipped as offices and meeting rooms. The space is fully IT-enabled with electronic whiteboards and other audio-visual equipment available for student use, and there is wifi throughout.
The Diamond Science & Technology Centre

The Diamond Science and Technology Centre for Doctoral Training (DST CDT) is the world’s first postgraduate training centre in DST. The Centre brings together industrialists and world leading academics drawn from universities across the UK, to deliver a coherent training programme in DST.

The centre is based within the state of the art Materials and Analytical Sciences building at the University of Warwick. Taught sessions take place within a purpose designed seminar room, whilst a student workroom promotes collaborative learning, exploiting the diverse strengths of our students for the benefit of all.

Students also have access to a shared kitchen and lounge area. As the main users of these facilities you will be expected to take shared responsibility for keeping these areas clean and tidy.

go.warwick.ac.uk/dst
DST CDT 1+3 Training Programme (P-F3P9)

The DST four year programme consists of a one year, taught MSc in DST based at the University of Warwick, followed by a three year PhD based at one of the partner institutions.

Taught MSc

The purpose of the MSc is to provide students with a detailed understanding of the fundamentals of materials science, from the classical to the quantum, but with an emphasis on diamond and related materials, and application-driven themes. The MSc will give students the theory, experience and problem solving skills needed to drive advances in the technologies that underpin this field.

Facilities

Under the umbrella of the Global Research Programme, Warwick is home to an extraordinary array of facilities to carry out world-class research and to provide training in materials science. You will benefit from hands-on training on state-of-the-art research instrumentation during your MSc year and, due to your continuing relationship with the University of Warwick through the centre, you will continue to exploit these facilities during your PhD research.
**MSc Course Regulations**

The MSc comprises ten taught modules, covering a wide range of themes, and two ten-week research projects. Each module is typically taught over a two-week period.

<table>
<thead>
<tr>
<th>Code</th>
<th>Core Modules: Taught</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH976</td>
<td>Novel &amp; Efficient Methods of Material Synthesis</td>
<td>10 CATS</td>
</tr>
<tr>
<td>PX904</td>
<td>Properties &amp; Characterisation of Materials</td>
<td>10 CATS</td>
</tr>
<tr>
<td>PX905</td>
<td>Defects &amp; Dopants</td>
<td>10 CATS</td>
</tr>
<tr>
<td>CH977</td>
<td>Computational Theoretical Material Modelling</td>
<td>10 CATS</td>
</tr>
<tr>
<td>PX906</td>
<td>Manufacturing the Future: Industrial Diamond</td>
<td>10 CATS</td>
</tr>
<tr>
<td>CH978</td>
<td>Interfaces &amp; Coatings</td>
<td>10 CATS</td>
</tr>
<tr>
<td>CH979</td>
<td>Device Fabrication &amp; Processing</td>
<td>10 CATS</td>
</tr>
<tr>
<td>PX907</td>
<td>Photonics &amp; Quantum Technologies</td>
<td>10 CATS</td>
</tr>
<tr>
<td>CH980</td>
<td>Applications of High Performance Materials</td>
<td>10 CATS</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Elective Modules (students must choose 1)</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH914</td>
<td>Electrochemistry &amp; Sensors</td>
<td>10 CATS</td>
</tr>
<tr>
<td>PX908</td>
<td>Biomedical Optics &amp; Applications</td>
<td>10 CATS</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Core Modules: Research</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH981</td>
<td>Mini-Research Projects</td>
<td>80 CATS</td>
</tr>
</tbody>
</table>
Term 1 Core Modules: October - December

**CH976: Novel and Efficient Methods of Material Synthesis**
Students will gain a working knowledge of a range of advanced materials in use by UK science and technology industries, with an emphasis on diamond. The properties, fabrication processes and applications of these materials will be discussed. A visit to Element Six’s Global Innovation Centre at Harwell, is included.

**PX904: Properties and Characterization of Materials**
This module provides an overview of important material properties, with a focus on three-dimensional crystals. Students will develop (i) an awareness of quantum mechanical theory of electronic structure and its role in determining material properties and (ii) an understanding of the electronic, mechanical, thermal, optical and magnetic measurements that can be used to investigate the properties of a material.

**PX905: Defects and Dopants**
This module covers the identification of intrinsic defects, dopants and impurities in semiconductors and insulators with a specific focus on diamond. Once the different types of defects have been introduced, characterisation techniques and the information they reveal on defect properties, will be discussed.

**CH977: Theory and Modelling of Materials**
Students will be taken from the basic principles of bonding at the atomic scale, through molecular and crystalline systems, arriving at the macroscopic system in terms of elastic properties, implantation damage and electronic devices. Through a combination of theory and practical application of computational simulation, students will review the most commonly used theoretical approaches to modelling materials, and develop an understanding of the advantages and disadvantages of each method.

**PX906: Manufacturing the Future: Industrial Diamond**
This module introduces the students to polycrystalline diamond (PCD) composites and related materials, high pressure-high temperature synthesis and the importance of defects. The machining characteristics of PCD will be discussed along with tool fabrication, machining trials, wear and failure mechanisms.
Term 2 Core Modules: January - March

**CH978: Surfaces, Interfaces and Coatings**
The focus of this module is surface-specific characterisation methods widely applied in research and industrial laboratories. The emphasis is on diamond surfaces, but the techniques discussed are relevant to other structurally related materials such as Si, Ge, III-V, II-VI semiconductors and the surfaces of other semiconductors, insulators and metals. A visit to the Diamond Light Source at Harwell, is included.

**CH979: Devices and Fabrication**
This module aims to cover the basics of clean room technologies and device fabrication. The specifics of diamond processing will be addressed in context with silicon technologies. Operation of basic semiconductor devices will be explained.

**PX907: Diamond Photonics and Quantum Devices**
Students will achieve a basic grounding in the physics and application of diamond to photonics and quantum devices. They will learn about principles of operation; advantages and challenges of diamond; device design and manufacture. They will gain practical experience in optics and spintronics experiments, and in finite element modelling of relevant optical systems.

**CH980: Applications of High Performance Materials (October - March)**
This module aims to promote an appreciation for the wider context of DST: the applications, alternative materials, and competitor technologies. Students will be encouraged to collate and critically analyse a body of scientific work and practice presenting this information to a variety of audiences.
Term 2 Elective Modules: January

**CH914: Electrochemistry and Sensors**
This module provides a grounding in the fundamentals of electrochemistry, electroanalytical techniques and sensor technology. Potentiometry, voltammetric and amperometric techniques, microfluidic devices, lab-on-a-chip methods, and electronic noses and tongues are discussed.

The course draws on Warwick’s major strengths in this area and covers developments in ion selective electrodes, electrode kinetics, mass transport and key techniques, such as linear sweep and cyclic voltammetry, hydrodynamic electrodes, stripping voltammetry, ultra-microelectrodes and array devices.

**PX908: Biomedical Optics and Advanced Microscopy Techniques**
Students will develop an understanding of biomedical optical imaging and spectroscopy and the potential biomedical applications of diamond. A variety of optical microscopy techniques are introduced including wide-field, confocal, fluorescence and advanced optical microscopy. Tissue optics (absorption, scattering, spectroscopy), imaging in biological tissue (OCT, multi-photon) and an overview of labels and probes for optical imaging will also be discussed.
Online Learning Environment: Moodle

All learning materials can be accessed via the Moodle module pages. Please inform the Teaching Fellow if you cannot access the Moodle page for one of your modules:

moodle.warwick.ac.uk

Assessed work must also be submitted via Moodle, unless otherwise stated.

MSc Timetable

The MSc timetable is available via the following link:

go.warwick.ac.uk/dst/msc_programme/timetable

Please check the timetable regularly as it may be subject to change.

Module Teachers

**Aberystwyth**
Prof. Andy Evans
Dr. Martin Wilding

**Bristol**
Prof. Mike Ashfold FRS
Dr. Simon Kohn
Prof. Martin Kuball
Prof. Paul May

**Cardiff**
Prof. Paola Borri
Dr. Stephen Lynch
Prof. Oliver Williams

**Imperial**
Dr. Daniele Dini
Dr. Chris Dunsby

**Newcastle**
Dr. Jon Goss

**Oxford**
Prof. John Foord
Dr. Joshua Nunn
Dr. Brian Patton
Prof. Jason Smith
Prof. Richard Todd

**Strathclyde**
Dr. Erdan Gu
Dr. Jennifer Hastie
Prof. Alan Kemp

**Warwick**
Dr. Claire Dancer
Prof. Julie Macpherson
Prof. Phil Mawby
Dr. Peter Gammon
Dr. Gavin Morley
Prof. Mark Newton
Prof. Pat Unwin
Dr. Claire Hurley

**Industry (De Beers/E6)**
Dr. Geoff Davies
Dr. David Fisher
Dr. Philip Martineau
MSc Research Projects

Research projects in DST are proposed by members of staff from across the consortium of universities and industrial partners associated with the centre.

Projects cover a range of topics, from material characterisation and processing to applications.

The projects are carried out either at one of the partner universities or a sponsoring company, after completion of the taught modules.

Term Dates 2016/2017

Induction week 0
Monday 26th - Friday 30th September 2016

Autumn Term
Monday 3rd October 2016 - Saturday 10th December 2016
Possible Exam Dates Thursday 15th - Tuesday 20th December 2016

Spring Term
Monday 9th January 2017 - Saturday 18th March 2017
Possible Exam Dates Thursday 23rd - Tuesday 28th March 2017

Summer Term
Monday 24th April 2017 - Saturday 16th September 2017
Exam Conventions

In order to pass the taught MSc, students must achieve an average of 50 % for each of the modules listed on page 10.

- For an MSc with merit, students must gain an average of 60 % over the entire MSc.
- For an MSc with distinction, students must gain an average of 70 % over the entire MSc.
- If a student fails a module, they will be allowed to re-sit components marked below 50 % once. However, the whole mark for the module or research project will then be capped at 50 %.

The university requirements for taught postgraduate awards are available via the following link:

www2.warwick.ac.uk/services/aro/dar/quality/categories/examinations/conventions/pgt

Should you have any queries or concerns during your MSc programme, please contact the Teaching Fellow, the DST CDT Director, the MSc Course Leader, or the DST Administrator.

Progression onto PhD

To progress onto the PhD, students must achieve a pass for the taught MSc.
Extenuating/Mitigating Circumstances

Extenuating or mitigating circumstances are events that have had a detrimental effect on your study, to the point that it is in your interest to draw your department’s attention to them and ask for them to be considered in mitigation of poor performance. Such circumstances include (but are not limited to) illness, both bodily and emotional; disability; the severe illness or death of a close family member; a shocking or traumatic personal experience. In addition, sudden, unexpected changes in family circumstances might affect your ability to make academic progress as a consequence of their demonstrable emotional impact upon you, and may also be considered as mitigation.

The University is aware that in some cultures it is considered shameful or embarrassing to disclose the details of these kinds of circumstances to those outside one’s family. This is not the case in the prevailing UK culture and you should be aware that your department and the University are fully supportive of students in difficult circumstances and want to assist if at all possible. If you feel inhibited from talking to a member of academic staff (such as the Teaching Fellow) in the first instance, you may also consider talking to a member of your SSLC, the Students’ Union, the University Senior Tutor or a member of staff in Student Support for initial, informal advice.

Clearly, in order for your circumstances to be considered as mitigating by your department, they must be conveyed formally to someone in DST (usually the Teaching Fellow, MSc Course Leader or the CDT Director). The University expects that you will discuss your circumstances before Exam Boards meet, so that they may be taken into account in good time. You should be aware that, in the event that you feel you need to appeal the outcome of an Examination Board, offering extenuating or mitigating circumstances at that point, you will need to provide a (very) good reason why you withheld the information earlier. Without wanting to invade your privacy, the University does expect that you bring such circumstances to your department’s attention in a timely manner, despite the discomfort you might feel in so doing. Failure to disclose such circumstances at a time when you could have done so may subsequently be problematic. Your department will do all it can to support you in difficult situations.
Attendance Monitoring

The DST CDT is required by the University to monitor your attendance and engagement with your course of study. In order to satisfy these monitoring points, MSc students are required to attend all taught and practical sessions, meetings and seminars, and to submit assessed work for the MSc exam board.

PhD students are required to attend the annual De Beers Diamond Conference and DST CDT retreats. They must also fulfil any additional requirements of the PhD host institution.

International students should be particularly aware of the consequences of missing contact points: the Academic Office is obliged to report to the Home Office UK Visas and Immigration (formerly the UK Border Agency) if any Tier 4 students have been found not to be engaging with and attending their degree course. This will normally lead to the curtailment of their visas.

Coursework Deadlines, Penalties and Extensions

The Teaching Fellow will clearly state deadlines for submitting assessed work. Submission will be via Moodle.

The penalty for late submission of work where no formal extension has been granted has been set at three percentage points, per day. A piece of work that would have scored 65% if it had been handed in on time would be awarded 62% if it were one day late, 59% if two days late, etc.

Coursework extensions can only be obtained under special circumstances (i.e. illness or other personal circumstances) from the MSc Course Leader (not the module leaders).

Please make yourself aware of the University’s policy on plagiarism.

www.warwick.ac.uk/services/academicoffice/examinations/plagiarism

If you are in any doubt as to whether or not the work you have produced would compromise these rules then please talk to a DST staff member or the module leader before submitting your work.
Attendance, Holidays and Absences (MSc)

Attendance at taught MSc sessions (lectures, workshops, laboratory practicals etc.) is mandatory. For periods of absence due to illness of less than one week, please submit a completed absence form:
go.warwick.ac.uk/fac/sci/dst/msc_programme/studentinformation/absence

For periods of absence due to illness of one week or more, in addition to the absence form, a doctor’s note clearly stating the reason for the absence together with start and end dates is required. If the Teaching Fellow has any reason to believe that the system of self-certification for absences is being abused, a doctor’s note may be requested from the first day of any absence.

Absence due to illness from any sessions leading directly to assessment or examinations will need to be excused by a doctor’s note irrespective of the duration of absence. Laboratory sessions are not to be missed without a supporting doctor’s note (or genuine emergency, bereavement etc.); if they are, you will not be able to submit work for that portion of the module.

When laboratory sessions are missed on an unauthorised basis, you will be required to meet with the MSc Course Leader to discuss the reason for your absence in more detail.

Periods of absence due to causes other than illness should be agreed in advance with the Teaching Fellow as well as any relevant module leaders or supervisors, prior to the time of absence. You must complete the online form for each period of absence.

If you do not attend all compulsory parts of the course you may be unable to complete your MSc and your stipend may be stopped.

The timing of annual leave for MSc students is prescribed by their timetable.

Attendance, Holidays and Absences (PhD)

DST PhD students are expected to report absences and take annual leave according to the rules of the host institution.
DST CDT Formal Requirements

In addition to your assignments, during the MSc year you are required to attend all taught and practical sessions, and fortnightly DST seminars (related to CH980: Applications of High Performance Materials).

During each term, students will have individual meetings with the Teaching Fellow to discuss any concerns, however you are expected to inform a member of staff with any concerns immediately, so that we can rectify any problems that may arise in a timely manner.

You will be expected to attend the annual De Beers Diamond Conference (July, University of Warwick) and annual cohort building events.

Whilst undertaking your PhD, you will fulfill the requirements of the host institution and any additional requirements from the DST CDT. You will complete regular online monitoring forms and will provide copies of PhD progression materials from the host institution to the centre.

Health and Safety

MSc students are expected to abide by the local rules of the laboratories they use, and to obey all instructions given to them by the demonstrators.

PhD students are expected to undertake any health and safety training required and abide by the rules of the host institution.

Out of Hours Access to MAS

During the week, access to MAS is restricted from 8:00 pm to 8:00 am. To enter the building between these times you will need your University card programmed to give you access.

Contact the DST administrator (DST.admin@warwick.ac.uk) to get access permissions for your University card.
Personal Details and Email Accounts

It is the student’s responsibility to update their centrally held record via start.warwick with any changes in contact details (address, phone number, emergency contacts). The DST CDT will primarily use Warwick e-mail accounts as a means of contacting all students.

You are required to check your University e-mail account at least twice a day, unless this is impossible due to down times of the University’s IT system or because you have arranged to take annual leave.

It will be assumed that any message is received within 24 hours of being sent. Students are responsible for liaising with IT services about their University e-mail account and user code if this is necessary. Students need to ensure that their University alias (e.g: A.N.Other@warwick.ac.uk) always points to their current user account. Please note that the user account may change with the transition from MSc to PhD and provisions will need to be made accordingly.

Students are responsible for keeping the Administrator and Teaching Fellow informed if there are any problems with their University e-mail account so that alternative contact arrangements can be made.

Computing and Printing

DST CDT 1+3 students (P-F3P9) are provided with a laptop at the beginning of their MSc course.

Stand-alone MSc students (TPXA-F3P9) are provided with a laptop at the beginning of their MSc course; this remains the property of the DST CDT and must be returned after the MSc year.

Please note that you are expected to make sufficient arrangements for backing up your work.

Printers: The DST CDT provides its students with free printing. Please do not abuse your photocopying and printing privileges.
Funding & Fees

The stipend for 2016/17 is £14,296. This is subject to the standard EPSRC terms and conditions:

www.rcuk.ac.uk/skills/training

Fees for the taught MSc for 2016/17 are £7,780 (Home/EU students).

PhD students are allocated £3100 to cover additional costs associated with both mini-projects during the taught MSc.

Fees during the PhD will vary according to the host institution. If based at the University of Warwick the fees for 2016/17 are £4,121 (Home/EU students). Over the course of their research PhD students are allocated:

- £3000 travel
- £8000 consumables

PhD Budget Management

All DST students are allocated their own consumables and travel budget. These are managed by their PhD supervisor.

Expenses and Travel Guidelines

It is expected that PhD students will attend one international conference over the 3 year period as well as the annual De Beers Diamond Conference.

Expense claims forms may be reimbursed through the host institutions claims system.

You need to keep and submit all relevant receipts otherwise claims cannot be reimbursed.

It is expected that you will maximise what you can achieve with your budget, i.e. do things as cheaply as possible! You must also abide by the host institutions financial regulations.
PhD Meetings and Reports

The DST CDT’s system of quality assurance for PhD students, alongside that of the host institutions progression requirements, is a combination of online monitoring and meetings with the DST PhD Coordinator. These will be completed, every six months.

These meetings are meant to help you identify where you are with your project. They are to establish:

- That the progress seen is appropriate to the stage of the research programme
- That the research methods are appropriate and practical
- If any theoretical and practical difficulties are hindering the project
- If the level of contact with supervisor(s) is adequate
- That a realistic plan is in place for completion of the research within the expected time frame

Any recommendations for progression from either the host institution or DST CDT should be followed up by the student.

PhD Reporting

Throughout your research, you will be expected to update your records on researchfish, in order that research funders and organisations are able to track the outcomes of your research:

www.rcuk.ac.uk/research/researchoutcomes/researchfish
Transferable Skills

During the taught MSc year, there is a strong emphasis on transferable skills. Alongside oral and written science communication skills development, students are encouraged to lead on managing interactions between their PhD and mini-research project supervisors, thereby taking an active role in planning their own research.

During their PhD research, students will attend residential workshops that will cover entrepreneurship, IP, business proposals etc.

In addition, there will be opportunities to take accredited transferable skills courses such as The Postgraduate Certificate in Transferable Skills in Science

www.warwick.ac.uk/transferableskills

Year 1 focuses on team working in a research environment and interactions with supervisors, colleagues and younger scientists. Year 2 looks at the communication of research to general (non-scientific) audiences (with the end point of this course being an interaction with a real audience of the students’ choice). Year 3 involves a particular emphasis on decision making, career guidance, job hunting, thesis planning and leadership. This programme is complemented in years 1-3 by Doctoral Skills modules 1, 2 and 3, as well as individually-designed research-related advanced training programmes with lecture courses, summer schools, conferences, laboratory visits etc. Your PhD advisory committee reviews your progress which is formalised in the form of The aim of this accredited Certificate is to help you to be a successful doctoral researcher and to be even more successful in your post-doctoral career than you might otherwise have been.
Outreach

The DST CDT aims to promote DST, both nationally and globally, to the general public and the wider academic community through outreach activities. We aim to bring diamond to the forefront of public attention; showcasing our research through exhibitions using thought provoking, interactive demonstrations.

Throughout your course, you will be encouraged to participate in various outreach activities to promote your research and the work of the DST CDT.

**DST CDT Outreach Activities (2015/16):**

Diamond: more than just a gemstone  
Royal Society Summer Science Exhibition, 4th - 10th July 2016  
National Eisteddfod of Wales, 29th July - 6th August 2015  
Diamonds are for sensing...  
Science Museum Lates, 24th June 2015

go.warwick.ac.uk/dst/outreach
Student Support Services

There is a comprehensive network of support and welfare services available to students to support you in times of difficulty. There is often more than one service which may be able to help, and services work together to ensure that any problems are dealt with swiftly and effectively. More details of the above services, along with others available to students can be found at:

www2.warwick.ac.uk/services/student-support-services

SSLC

Student-Staff Liaison Committees (SSLCs) are student-led committees that form the basis for the representation of students' views within the department and at higher university committees. They are an integral feature of the University's quality assurance framework. SSLCs provide a forum for academic staff and students to discuss issues relating to a module, course, department or centre. The SSLCs are student-led and organised forums.

The DST CDT has an SSLC. The committee comprises two representatives for the MSc cohort and one representative from each PhD cohort, along with the teaching fellow, course leader and administrator. You should nominate representatives who can represent your views to the DST staff. The committee should meet at the end of terms 1 and 2 and at the annual De Beers Diamond Conference. Additional meetings should be convened as issues arise.

All SSLC representatives should attend one of the SSLC training sessions:

www.warwicksu.com/sslc
The EPSRC Centre for Doctoral Training in Diamond Science and Technology in collaboration with:

[Logos of collaborating institutions]