Revegetating Industrially-Disturbed Sites with Native Species – Seed Technologies and Novel Approaches
TABLE OF CONTENTS

2 PARTNERS AND SPONSORS

2 PLANNING COMMITTEE

3 NAIT CAMPUS MAP

4 AGENDA

5 CENTRE FOR BOREAL RESEARCH

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PARTNERS AND SPONSORS

The Centre for Boreal Research would like to thank the following organizations and all of our volunteers for their valued support and contributions.

Thank you to our “Partners in Boreal Education” for their generous support:

PLANNING COMMITTEE

Dr. Jean-Marie Sobze | Centre for Boreal Research
Catherine Brown | Centre for Boreal Research
REVETEATING INDUSTRIALLY-DISTURBED SITES WITH NATIVE SPECIES - SEED TECHNOLOGIES AND NOVEL APPROACHES

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**AGENDA**

8:00 - 8:30 AM | REGISTRATION AND LIGHT BREAKFAST

8:30 – 9:00 AM  
**Dr. Jelena Bajic** | Director of Operations, NAIT Office of Research and Innovation  
*Introduction and business context*

9:00 – 9:30 AM  
**Lindsay Robb** | Seed Specialist, Alberta Tree Improvement and Seed Centre, Alberta Agriculture and Forestry  
*Update: TZ, germination and storage longevity procedures on 14 reclamation species*

9:30 – 10:00 AM  
**Dr. Jean-Marie Sobze** | Plant and Seed Technologies Research Chair, NAIT Centre for Boreal Research  
*Seed pelleting for land reclamation: challenges and opportunities*

10:00 – 10:30 AM | NETWORKING BREAK

10:30 – 11:00 AM  
**Donnie McPhee** | Forest Genetics Technician, Natural Resources Canada  
*Canada’s National Tree Seed Centre, moving forward*

11:00 – 11:30 AM  
**Dr. Raymond Thomas** | Associate Professor, Memorial University  
**Dr. Jean-Marie Sobze** | Plant and Seed Technologies Research Chair, NAIT Centre for Boreal Research  
*Use of nanomaterials to improve seed germination*

11:30 AM – 12:00 PM  
**Dr. Natalia Startsev** | Natural Resources Canada, Northern Forestry Centre  
*Osmotic seed priming: concept and early results*

12:00 – 1:00 PM | LUNCH BREAK

1:00 – 1:30 PM  
**Dave Larson** | CEO, Global Restoration Corp  
*Seed Ecological Enhancement Delivery System (SEEDS)*

1:30 – 2:00 PM  
**Dr. Chibuike Chigbo** | Research Associate, NAIT Centre for Boreal Research  
**Dr. Stefan Schreiber** | Director, EnviroStats Solutions  
*Seedling lunchbox concept*

2:00 – 2:30 PM | NETWORKING BREAK

2:30 – 3:00 PM  
**Eckehart Marenholtz** | Forest Reclamation Specialist, Chickadee Reclamation Services  
*Practical applications of the Roots-in-a-Bag concept*

3:00 – 3:30 PM  
**Dr. Kevin Kemball** | Director of Business Development, NAIT Centre for Boreal Research  
*Northwest Alberta seed consortium and closing remarks*
CENTRE FOR BOREAL RESEARCH

OVERVIEW

NAIT’s Centre for Boreal Research is a 836-square-metres, state-of-the-art research facility located in Peace River, 500 kilometres northwest of Edmonton. It is staffed by a team of research scientists and technicians with professional designations in forestry, biology and agrology.

The Institute’s facility includes two laboratories, office space, an outdoor growing space and a three-bay greenhouse that features computer-controlled humidity, temperature and lighting. The facility was funded by NAIT, Alberta Innovation and Advanced Education, and the Canada Foundation for Innovation, with industry funding from Shell Canada and Penn West Petroleum.

The Centre for Boreal Research is a leader in applied research relating to forest and peatland reclamation and is an essential partner for applied science, innovation and enterprise development in Alberta’s boreal forest region. With joint funding from the Natural Science and Engineering Research Council of Canada and many industry partners, the Institute has established two Industrial Research Chairs for Colleges to advance research in boreal reclamation, reforestation and peatland restorations.

WHAT WE DO

The Centre for Boreal Research develops scientifically based best practices and applied technologies to address present and emerging knowledge gaps in the management and reclamation of disturbed landscapes. We are committed to enhancing the innovation capacity and competitiveness of our industry partners and small and medium-sized enterprises through the timely publication of technical information, and ready access to our research expertise and technology.

Our mission is to promote the informed use of boreal resources through applied science, education, and partnerships with industry, government agencies, practitioners, communities and academic partners.

FOUR REASONS TO CHOOSE NAIT AS YOUR APPLIED RESEARCH PARTNER:

• CONNECT PARTNERS: Strong partnerships and research networks are core to the success of the Centre for Boreal Research and benefit our partners, collaborators, students and all Albertans.

• SOLVE PROBLEMS: Through prototyping of tools and technologies, we enable organizations to apply solutions to today’s forest management challenges and reduce management risks and costs into the future.

• INDEPENDENT THIRD PARTY: We offer objective and scientifically credible information at arm’s length from government and industry to meet our stakeholders present and emerging reclamation needs.

• ACCESSIBLE PRODUCTS: We provide information products, guidelines, and protocols in formats that are widely accessible, to inform operational reclamation practices and enable responsible management and environmental stewardship by industry and small and medium-sized enterprises.

OUR EXPERTISE

The Centre for Boreal Research is instrumental in providing novel, scientifically proven and cost-effective reclamation methods, products, training and education in four key programs:

• Forest Reclamation – we innovate boreal reforestation methods for industry to improve reclamation success while reducing management risks and costs.

• Peatland Restoration – we advance technologies in peatland reclamation and management to reduce the industrial footprint on boreal peatland communities.

• Plant and Seed Technologies – we facilitate the collection, treatment, and delivery of native boreal tree, shrub, forb and graminoid species for reclamation in northwestern Alberta.

• Research Extension and Education – we promote the timely publication of relevant applied research to enable industry to meet ecological reclamation and reforestation standards on forest and peatland sites throughout Alberta.

FOR MORE INFORMATION:

780.618.2600 | boreal@nait.ca