

An English version follows,

CRMR nouvelles

Événements, succès, publications : voici les dernières nouvelles du CRMR pour l'année 2025. Bonne lecture!

Pour une liste détaillée des nouvelles et des événements à venir, consultez la page principale du site Web du [CRMR](#), ainsi que ses réseaux sociaux ([Facebook](#) et [LinkedIn](#)) et sa [Chaîne YouTube du CRMR](#)!

Calendrier CRMR

- Jeudi 15 janvier 2026, à 11h30 - Le droit d'auteur et l'enseignement: suis-je sur la bonne voie?
- Mardi 20 janvier 2026, à 11h30 - Êtes-vous une personne autrice ou collaboratrice?
- Mardi 3 février 2026, à 11h30 - Plagiat et autres infractions aux études : connaître les règles, c'est investir dans son avenir!
- Jeudi 26 février 2026, à 11h00 - L'identifiant ORCID : un incontournable de la recherche
- Jeudi 5 mars 2026, à 11h30 - Initiation à Elicit, outil d'IA de recherche et d'analyse
- Mardi 17 mars 2026, à 11h30 - Droit d'auteur pour les personnes étudiantes des cycles supérieurs

Dates importantes : Bourses, Financement, Prix et Congrès

- **16 janvier 2026** – date limite pour soumettre une demande à la bourse de soutien du CRMR - Hiver 2026! **En savoir plus!**
- **19-22 mai 2026** – Ne manquez pas le congrès annuel de l'International Association for Impact Assessment (IAIA) à Québec. **Tous les détails ici !**

Recrues récentes



[Jérémy Winneringer](#)



[Mariana Hasegawa](#)



[Maxime Parot](#)



[Bruna Roque Ugulino De Oliveira](#)

Réalisations, succès et nouvelles du CRMR !



Excellence scientifique : le CRMR à l'honneur dans les World's Top 2% Scientists! [En savoir plus!](#)



[Le colloque annuel du CRMR en rétrospective!](#)



Alexis Achim

[Silva21: un projet clé pour la résilience des forêts face au climat!](#)

[Le package lidR, développé par Jean-Romain Roussel sous la direction d'Alexis Achim, franchit un cap historique!](#)

[Lancement de la Chaire de recherche du Canada en sylviculture adaptée au changement climatique!](#)

[Le professeur Alexis Achim reçoit 2,2 M\\$ pour renforcer la résilience des forêts boréales face aux feux de forêt!](#)



[CRMR célèbre Noël dans la joie et la convivialité!](#)



[Félicitations à Laurence Boudreault pour la brillante soutenance de sa thèse de doctorat couronnée de succès!](#)



[Félicitations à Basma Ben Mahmoud pour la brillante soutenance de sa thèse de doctorat couronnée de succès!](#)



Félicitations à **Jeremy Michael Piggot Navarrete** pour la brillante soutenance de sa thèse de doctorat couronnée de succès!



Félicitations à **Jinxing Li** pour sa soutenance de doctorat couronnée de succès!



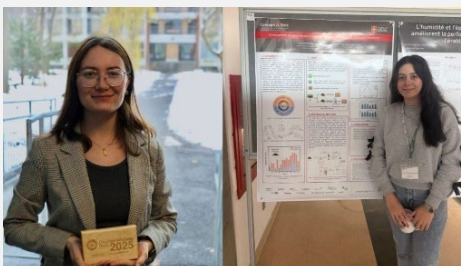
Le doctorant **Seyed Ali Emamian** est honoré par la bourse ACI-Québec! [En savoir plus!](#)



Félicitations à **Isabel Cristina Gomez Garcia** pour l'obtention d'une bourse EDI CERMA-CRMR! [En savoir plus!](#)



Prix Relève 2025 du CERIU : **Basma Ben Mahmoud** honorée pour son projet novateur en construction! [En savoir plus!](#)



Le CRMR au cœur de la recherche et des échanges lors du colloque facultaire! [En savoir plus!](#)



**Evelyne
Thiffault**

Québec : cap sur la carboneutralité d'ici 2045 selon le Comité consultatif sur les changements climatiques!

Abandon de la réforme du régime forestier au Québec : enjeux et perspectives!

Succès du Symposium Université Laval – Hydro-Québec : Vers une meilleure compréhension de l'empreinte carbone de l'hydroélectricité!



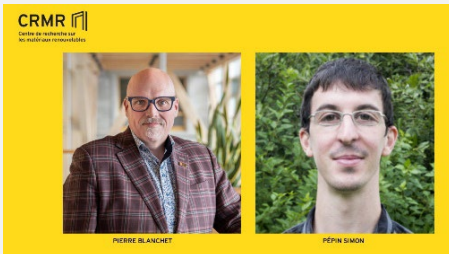
Tiam Mahmoudian et Sara Etmianrezaeieh se distinguent à la Journée de recherche étudiante de la Société canadienne des biomatériaux de l'Est du Canada 2025! [En savoir plus!](#)



Jeremy Michael Piggot Navarrete remporte la bourse de soutien de l'automne 2025 du CRMR, d'une valeur de 5 000 \$! [En savoir plus!](#)



Le CRMR, l'un des centres phares de l'Institut des matériaux durables! [En savoir plus!](#)



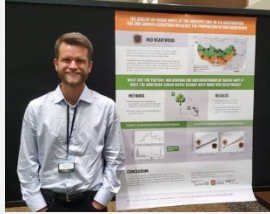
Pierre Blanchet et Simon Pepin misent sur des panneaux de terre et de fibres de bois comme alternative écologique au gypse! [En savoir plus!](#)



Lever les freins à la construction en bois : la recherche de **Baptiste Giorgio** met en lumière les perceptions du secteur! [En savoir plus!](#)



Sanjoy Roy récompensé par la bourse commémorative Peter deMarsh! [En savoir plus!](#)



David Voyer et son équipe exploitent la télédétection LiDAR pour contrer le déclin de l'érable à sucre au Québec! [En savoir plus!](#)



Les membres du CRMR au cœur de l'innovation forestière à SilviLaser 2025 ! [En savoir plus!](#)



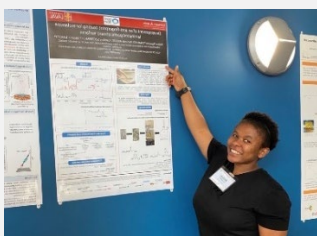
Reconnaissance académique : **Rebecca Holbach** remporte le deuxième prix du concours Bürgerdienst Lepper e.V



Une contribution innovante de Corepan-Bois à la conférence internationale PTF BPI 2025!



Café d'accueil Automne 2025 : Un moment de rencontres et d'inspiration!



Félicitations à **Raissa Ngwane** pour sa participation au 2^e Colloque de maillage interordre en sciences des matériaux (CQMF QCAM) !

Apprendre et savoir-faire!

- Saviez-vous qu'il est possible de concevoir des colles naturelles sans produits toxiques ? Découvrez la présentation de **Laura Chrétien** lors de la finale nationale de Ma thèse en 180 secondes [ici](#).
- [Boostez vos compétences avec les formations de la Bibliothèque de l'Université Laval!](#)

À lire!

Articles publiés dans des revues de recherche révisées par les pairs

- Abutahnat, Y., Sorelli, L., & El Refai, A. (2025). *Tensile behavior of fiber-reinforced cementitious matrix with ultra-high-performance hybrid fiber-reinforced concrete (UHP-FRCM) with enhanced crack width control, fracture energy, and ultimate strength*. *Construction and Building Materials*. <https://doi.org/10.1016/j.conbuildmat.2025.142430>.
- Ait Benhamou, A., Boussetta, A., & autres auteurs. (2025). *Evaluating the effects of Kraft and hydroxymethylated lignin on particleboard performance and environmental impact*. *International Journal of Adhesion and Adhesives*, 146, 104249. <https://doi.org/10.1016/j.ijadhadh.2025.104249>.
- Ananias, R. A., Leandro-Zúñiga, L., Pérez-Peña, N., Salvo, L. P., & Cloutier, A. (2025). *Transverse moisture diffusion in Eucalyptus nitens wood*. *Wood Material Science & Engineering*. <https://doi.org/10.1080/17480272.2025.2535511>.
- Canel, C-M., Thiffault, E., Thiffault, N. (2025). *Leveraging biomass procurement to mitigate carbon emissions at the stand level: A case study in Eastern Canadian forests*. *GCB Bioenergy*, 17(4), e70067. <https://doi.org/10.1111/qcbb.70067>.
- Dargahi, M., & Sorelli, L. (2025). *Experimental investigation of hygro-thermo-fracture couplings in cement paste with mineral fillers via micro-scale splitting tests*. *Construction and Building Materials*, 502, 144362. <https://doi.org/10.1016/j.conbuildmat.2025.144362>.
- Delgadillo Buenrostro, L., Pinheiro Ramos, N., Marcondes de Lima e Silva, S., Blanchet, P., & Gosselin, L. (2026). *Simultaneously estimating functional forms for thermal conductivity and vapor resistance factor of wall insulation in situ by inverse problem*. *Energy and Buildings*, 350, 116575. <https://doi.org/10.1016/j.enbuild.2025.116575>.
- Dura, H., Fortin, M. & Achim, A. 2025. *Cutting through market trends: The impact of macroeconomy, COVID-19 pandemic and climate-related disasters costs on wood product prices in North America*. *Canadian Journal of Forest Research*. <https://doi.org/10.1139/cjfr-2025-0001>.
- Ekila, R. J., Stevanovic, T., & Rodrigue, D. (2025). *Electrospinning of Miscanthus x giganteus Organosolv Lignin in Dimethyl Sulfoxide (DMSO)*. *Polymers*, 17(12), 1695. <https://doi.org/10.3390/polym17121695>.
- Garcia, R., Cloutier, A., Alipraja, I., Hernández, R. E., & Koubaa, A. (2025). *Performance of Oriented Strand Boards Made with Jack Pine Strands Produced by an Innovative Strander-Canter*. *Forests*, 16(8), 1227. <https://doi.org/10.3390/f16081227>.
- Gholamizoj, K., Salenikovitch, A., Chui, Y. H., Zhu, H., & Bezabeh, M. (2025). *Structural Performance of Dowel Connections with Slotted-in Steel Plates for Mass-Timber Braced Frames*. *Journal of Building Engineering*, 113959. <https://doi.org/10.1016/j.jobe.2025.113959>.
- Harel, A., Thiffault, E., Paré, D., Hudon, R., Larochelle, M., & Chavaillaz, Y. (2025). *Soil CO₂ and CH₄ effluxes in powerline rights-of-way and their adjacent forests*. *Agricultural and Forest Meteorology*, 374, 110801. <https://doi.org/10.1016/j.agrformet.2025.110801>.
- Kerala, A., Winninger, J., Chamberland, J., Nishiyama, Y., & Landry, V. (2025). *Enhancing moisture exclusion in wood through cell wall bulking via whey ultrafiltration permeate and citric acid modification*. *European Journal of Wood and Wood Products*, 84 (4). <https://doi.org/10.1007/s00107-025-02344-7>.
- Leduc, F., Coops, N. C., Morin-Bernard, A., Moreau, G., & Achim, A. (2025). *A Review of Dendrochronology and Remote Sensing Integration for Forest Growth and Disturbance Monitoring*. *Current Forestry Reports*, 11(25). <https://doi.org/10.1007/s40725-025-00260-w>.
- Li, J., Stevanovic, T., Rodrigue, D., Li, S., Li, R., & Wang, X. (2025). *Wood fiber reinforced oxidized starch-based composite foam: biobased, flame retardant and hydrophobic*. *Carbohydrate Polymers*. <https://doi.org/10.1016/j.carbpol.2025.123456>
- López-Gómez, Y. M., Haapala, A., & Cloutier, A. (2025). *Exploring tannin and caffeine for enhanced performance of oriented strand boards under varied conditions*. *European Journal of Wood and Wood Products*, 83(180). <https://doi.org/10.1007/s00107-025-02334-9>.

- Mary, A., Blanchet, P., Pepin, S., Chamberland, J., Diouf, P. N., & Landry, V. (2025). Bio-innovation in wood bonding: Sodium caseinate as a renewable polyol substitute. *Construction and Building Materials*, 494, 143365. <https://doi.org/10.1016/j.conbuildmat.2025.143365>.
- Moreau, L., Thiffault, E., Landry, G., & Carle, J.-F. (2025). How does shifting wood products between uses affect their carbon dynamics and climatic impacts? Leveraging MoSiR, a new carbon accounting tool. *Ecological Modelling*. <https://doi.org/10.1016/j.ecolmodel.2025.111236>.
- Ornaghi Júnior, H. L., Poletto, M., de Prá Andrade, M., Monticeli, F. M., Hillig, E., Blanchet, P., Sadaoui, A., & Zattera, A. J. (2025). Itauba Wood Fiber (*Mezilaurus lindaviana*) and Itauba Wooden Board: A Survey on the Physical, Chemical, Thermal, and Mechanical Properties. *ACS Omega*, 10, 44038–44047. <https://pubs-acsc-org.acces.bibl.ulaval.ca/doi/10.1021/acsomega.5c05179>.
- Rodríguez GE, Bustos Ávila C, Cloutier A. Impact of bio-based phase change materials on the thermal inertia of panels made from medium-density fiberboard (MDF) residues. *Construction and Building Materials*. [doi:10.1016/j.conbuildmat.2025.143434](https://doi.org/10.1016/j.conbuildmat.2025.143434).
- Sokhangou, F., Chouinard, L., Dey, P., Sorelli, L., & Pineda, M. (2025). A novel clustering-based curvature method with wavelet transform for detecting progressive damage of simply supported ultra-high performance fiber-reinforced concrete beams using a laser scanner vibrometer. *Mechanical Systems and Signal Processing*. Volume 243, 113671. <https://doi-org.acces.bibl.ulaval.ca/10.1016/j.ymsp.2025.113671>.
- Soliman, O. E., El Refai, A., & Sorelli, L. (2025). Shear strengthening of RC beams with fabric-reinforced cementitious matrix: Analytical modeling and machine learning approaches. *Composite Structures*, 276, 119595. <https://doi.org/10.1016/j.compstruct.2025.119595>.
- Trotto, T., Coops, N. C., Achim, A., & Gergel, S. E. (2025). Spectral remote sensing reveals forest structural characteristics resilient to spruce budworm infestations. *Ecological Indicators*, 181, 114382, <https://doi-org.acces.bibl.ulaval.ca/10.1016/j.ecolind.2025.114382>.
- Trotto, T., Coops, N. C., Achim, A., Gergel, S. E., & Roeser, D. (2025). Characterizing landscape configuration effects on eastern spruce budworm infestation dynamics. *Landscape Ecology*, 40, article 183. <https://doi.org/10.1007/s10980-025-02203-z>.
- Wotherspoon, A. R., Moreau, G., Morin-Bernard, A., Achim, A., Coops, N. C., Villemaire-Côté, O., Irwin, L. A. K., Hagerman, S., Thiébaud, N., Colton, C., Eskelson, B. N. I., Fortin, M., Barbeito, I., White, J., Roy, V., Byrne, K., & Roeser, D. (2025). Challenges in teaching silviculture in Canada: The path forward. *Canadian Journal of Forest Research*, 55(1), 1–19. <https://doi.org/10.1139/cjfr-2025-0081>.
- Zevallos Luna, M. A.; Khasa, D. P.; Landry, V. (2025). Bio-Based Aerogels from Potato Residues for Glycine Storage and Controlled Release. *BioResources*. DOI: [10.15376/biores.21.1.580-605](https://doi.org/10.15376/biores.21.1.580-605).

Articles de vulgarisation scientifique

- Ekila Roland Jacks - [Électrofilage de la lignine de *Miscanthus x giganteus* dans le diméthylsulfoxyde \(DMSO\)](#).
- Mahdiar Dargahi - [Évaluation en compression uniaxiale à l'échelle microscopique des interactions hygro-thermo-mécaniques dans une pâte cimentaire avec filler calcaire à faible rapport eau-fine](#).
- Kiavash Gholamizoj - [Performance structurale des assemblages à goujons avec plaques d'acier insérées pour contreventements en bois massif](#).

Votre laboratoire rayonne, mais demeure trop discret ?

Aidez-moi à mieux mettre en valeur vos réalisations en me transmettant vos dernières actualités (conférences, distinctions, vidéos, etc.) ainsi que vos publications récentes (articles, chapitres d'ouvrages, etc.).

--- English -----

Events, successes, publications: here are the latest news from the CRMR for 2025. Enjoy your reading!

For a detailed list of news and upcoming events, please visit the [CRMR](#) website, follow us on social media platforms ([Facebook](#) and [LinkedIn](#)), and explore our [YouTube channel](#)!

CRMR calendar

- Thursday, January 15, 2026, 11:30 AM- **Copyright and Teaching: Am I on the Right Track?**
- Tuesday, January 20, 2026, 11:30 AM- **Are You an Author or a Collaborator?**
- Tuesday, February 3, 2026, 11:30 AM - **Plagiarism and Other Academic Offenses: Knowing the Rules Is an Investment in Your Future!**
- Thursday, February 26, 2026, 11:00 AM- **The ORCID Identifier: A Research Must-Have.**
- Thursday, March 5, 2026, 11:30 AM- **Introduction to Elicit, an AI Tool for Research and Analysis.**
- Tuesday, March 17, 2026, 11:30 AM- **Copyright for Graduate Students.**

Important Dates: Scholarships, Funding, Awards, and Conferences

- **January 16, 2026**– Deadline to apply for the CRMR Support Scholarship – Winter 2026! [Read more!](#)
- **May 19–22, 2026** – Don't miss the annual congress of the International Association for Impact Assessment (IAIA) in Quebec. All details here!
- **19-22 mai 2026** – Ne manquez pas le congrès annuel de l'International Association for Impact Assessment (IAIA) à Québec. [All details here!](#)

New Recruits



[Jérémy Waininger](#)



[Mariana Hasegawa](#)



[Maxime Parot](#)

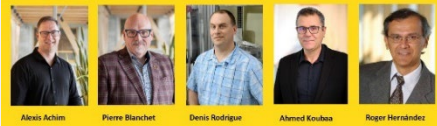


[Bruna Roque Ugulino De Oliveira](#)

Achievements and successes



Chercheurs du CRMR parmi les World's Top 2% Scientists!



Alexis Achim



Scientific Excellence: CRMR Honored Among the World's Top 2% Scientists! [Read more!](#)

[The CRMR Annual Symposium in Review!](#)

[A Silva21: a Key Project for Forest Resilience in the Face of Climate Change!](#)
[The lidR package, developed by **Jean-Romain Roussel** under the supervision of **Alexis Achim**, has reached a historic milestone!](#)
[Launch of the Canada Research Chair in Climate-Adaptive Forestry!](#)
[Professor **Alexis Achim** receives \\$2.2M to strengthen the resilience of boreal forests against wildfires!](#)

[CRMR Celebrates Christmas with Joy and Togetherness!](#)

[Congratulations to **Laurence Boudreault** on the outstanding and successful defence of her doctoral thesis!](#)

[Congratulations to **Basma Ben Mahmoud** for the successful and outstanding defense of her doctoral thesis!](#)



Congratulations to [Jeremy Michael Piggot Navarrete](#) on the successful and outstanding defense of his doctoral thesis!



Congratulations to [Jinxing Li](#) on his successful PhD defense!



PhD Candidate [Seyed Ali Emamian](#) Honored with ACI-Québec Scholarship!



Congratulations to [Isabel Cristina Gomez Garcia](#) on receiving a CERMA-CRMR EDI Scholarship!



CERIU 2025 Rising Award: [Basma Ben Mahmoud](#) Honored for Her Innovative Construction Project!



The CRMR, the central hub of research and exchange at the FFGG faculty symposium! [Read more!](#)



Evelyne Thiffault

[Quebec: Heading toward carbon neutrality by 2045, according to the Advisory Committee on Climate Change!](#)

[Abandonment of forest regime reform in Quebec: issues and perspectives!](#)

[Success of the Université Laval – Hydro-Québec Symposium: Towards a Better Understanding of the Carbon Footprint of Hydroelectricity](#)



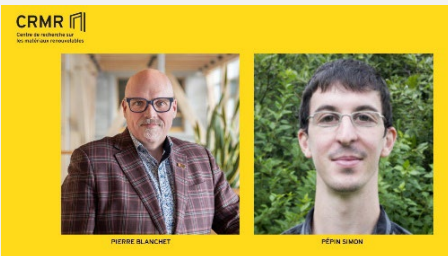
[Tiam Mahmoudian and Sara Etmnanrezaeieh stand out at the Canadian Biomaterials Society – Eastern Canada Student Research Day 2025!](#)



Jeremy Michael Piggot Navarrete wins the CRMR Autumn 2025 Support Scholarship, valued at \$5,000! [Read more!](#)



The CRMR, one of the flagship centers of the Institute of Sustainable Materials! [Read more!](#)



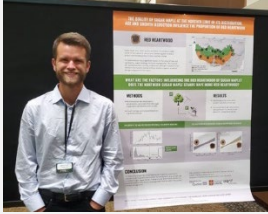
Pierre Blanchet and **Simon Pepin** are betting on earth and wood fiber panels as an eco-friendly alternative to gypsum! [Read more!](#)



[As Mass Timber Construction Gains Ground in Quebec, **Baptiste Giorgio** Explores Why This Sustainable Material Has Yet to Take Off!](#)



[Sanjoy Roy Awarded the Prestigious Peter deMarsh Memorial Scholarship!](#)



[David Voyer and his team are using LiDAR remote sensing to combat the decline of sugar maple in Quebec!](#)



CRMR members at the heart of forestry innovation at SilviLaser 2025!

[Read more!](#)



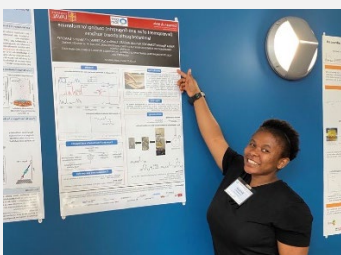
[Academic Recognition: Rebecca Holbach Wins Second Prize in the Bürgerdienst Lepper e.V. Competition](#)



An Innovative Contribution from Corepan-Bois at the 2025 PTF BPI International Conference! [Read more!](#)



[Autumn 2025 Welcome Coffee: A Moment for Connection and Inspiration!](#)



[Congratulations to Raissa Ngwane for her participation in the 2nd Interlevel Networking Symposium in Materials Science \(CQMF QCAM\)!](#)

Learn and Build Skills

- Did you know it is possible to develop natural adhesives without toxic products? Discover **Laura Chrétien's** presentation at the national finals of *My Thesis in 180 Seconds* [here](#).
- [Boost your skills with training sessions from Université Laval's Library!](#)

Read on

Articles published in peer-reviewed research journals.

- Abutahnat, Y., Sorelli, L., & El Refai, A. (2025). *Tensile behavior of fiber-reinforced cementitious matrix with ultra-high-performance hybrid fiber-reinforced concrete (UHP-FRCM) with enhanced crack width control, fracture energy, and ultimate strength*. *Construction and Building Materials*. <https://doi.org/10.1016/j.conbuildmat.2025.142430>.
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- Delgadillo Buenrostro, L., Pinheiro Ramos, N., Marcondes de Lima e Silva, S., Blanchet, P., & Gosselin, L. (2026). *Simultaneously estimating functional forms for thermal conductivity and vapor resistance factor of wall insulation in situ by inverse problem*. *Energy and Buildings*, 350, 116575. <https://doi.org/10.1016/j.enbuild.2025.116575>.
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- Keralta, A., Winninger, J., Chamberland, J., Nishiyama, Y., & Landry, V. (2025). *Enhancing moisture exclusion in wood through cell wall bulking via whey ultrafiltration permeate and citric acid modification*. *European Journal of Wood and Wood Products*, 84(4). <https://doi.org/10.1007/s00107-025-02344-7>.
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