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# ROYAL MILITARY COLLEGE SAINT-JEAN

## Annual Report of Research Activities 2019-2021



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Saint-Jean-sur-Richelieu, Québec  
2021

ISSN 2564-0372 (Print)  
ISSN 2564-0380 (Online)

Cette publication est également disponible en français : Rapport annuel des  
activités de recherche  
Published once a year

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# Message from the Commandant



Brigadier-general  
Nicolas Pilon

Over the past few years, the Royal Military College Saint-Jean (RMC Saint-Jean) has experienced a period of tremendous growth with the establishment of a university program and its efforts to regain full academic status within the ministère d'Enseignement supérieur du Québec, an initiative in line with the vision of Canada's Defence Policy **Protection, Security, Commitment** announced in June 2017.

During the year 2019-2020, in order to foster the development of its full potential and its contribution within the Canadian Armed Forces, RMC Saint-Jean, under our leadership and after several consultations, developed and published its strategic plan 2020-2025. Our ultimate goal is for the RMC Saint-Jean to become a bilingual and innovative military university recognized for the excellence of the leaders it trains in the service of the country. To achieve this goal, research plays a key role in nurturing educational programs that benefit officer cadets and contribute to the credibility of our institution. Recognizing the importance of research, the College has set several objectives in its five-year plan that will facilitate the work of our researchers and increase their competitiveness. They will thus be able to deploy their full potential for the benefit of Canadian and international society in the field of defence and security and related areas of research.

As you will see in this annual report, the College benefits from the expertise of its highly renowned faculty members, and we are extremely pleased to be able to recognize and share their successes. With the return to university status, RMC Saint-Jean will continue to cultivate the importance of research.

# Message from the Academic Director



James Groen

This Report demonstrates that the professors at Royal Military College Saint-Jean (RMC Saint-Jean) are delivering academic and research excellence. It highlights the accomplishments in areas of direct relevance to defence and beyond. Despite the complications imposed by the COVID-19 pandemic, a growing number of partnerships, grants and publications were secured. The work of the Dean of Research, its Bureau as well as the new *Centre for Security and Crisis Governance* (CRITIC) were key focal points for RMC Saint-Jean research success. Professors including those teaching in the International Studies Bachelor programme and in the *Professional Military Education Department* (PMED) were also active in research and ensured critical knowledge transfer within and outside the College through publications and conferences. They integrated their research into classroom instruction and set an example for our officer-cadets as well as non-commissioned members helping them to grow as thinkers and doers.

Going forward, RMC Saint-Jean research efforts will be sustained. Doing so strengthens our reputation alongside our return to university status. The 2020-2025 Strategic Plan commits the College to continue to grow its capacity in research and knowledge mobilization. It proposes increased access to resources and initiatives for our researchers; to further develop relations with other academic institutions and partners; and to ensure the competitiveness of our researchers. The future for RMC Saint-Jean is promising. Thanks to all of you who contribute to this important effort !



# Message from the Dean of Research



Roch Legault

In the two years since the last report, the research eco-system has taken on a new dimension at RMC Saint-Jean in order to keep pace with the changes towards the new university status of the institution. The Dean's Office has continued its organizational development with the addition of a dynamic full-time assistant who took on the challenge to understand both the complexity of university and college research and to support the work of the Dean, committees and researchers in a military context governed by public service regulations. The establishment of an innovative embryonic Research Office is being led on an interim basis by the Director of Research Development and Research Bureau that is already paying dividends far beyond the doors of our institution. The establishment of a person in charge as Research Advisor (ethics component) also responds to the logic of the development of RMC Saint-Jean in line with the Quebec's government recognition of RMC Saint-Jean's university status. Here, it is the vice-dean of education who is assisting with research this time. The Director of College Programs, who chairs the committee that allocates research funds for the DHSS (FREDS), and the leadership of the Library, which does not fail to support the crucial projects of the deanship with its expertise and efficiency, are also actively involved.

The pandemic that hit the planet and, by extension, the activities of researchers required adjustments of all kinds. In research at RMC Saint-Jean, we had to improvise in order to keep the channels of communication open with our community through the publication of a newsletter (succeeding to the bulletin) and to ensure contractual support for communications with the external university community. For all the turmoil that the pandemic has caused researchers without fail: cancellations, postponements, slowdowns, downgrades, and above all, uncertainties, we have worked behind the scenes to pursue development projects to prepare for a better tomorrow. We have worked to achieve some aspects of the framework agreement on research and graduate studies signed with the University of Sherbrooke in January 2020, to structure the Centre on Security and Crisis Governance (CRITIC), to support the concept and renew the delivery of the 2020 and 2021 versions of Leadersphere, RMC Saint-Jean's flagship conference, and to ensure that we respond to the dynamic Ethics Committee, strengthening its composition, assisting with its revised policies, supporting its internal recognition and encouraging its external engagements.

As a reward for the hard work of the deanship and its collaborators, we can appreciate new faces, new accomplishments and new activities to present to you. Research at RMC Saint-Jean has taken off academically.

# The Deanship of Research

With more than eighty publications and specialized conferences, RMC Saint-Jean researchers contribute to the scientific production in Canada. They bring their specific expertise to decision-makers in governmental and international bodies, and to organizations in the community and business sectors. They contribute to public debate through public lectures, the publication of columns and articles in the press, and interventions in the media.



In addition to the opportunities offered through the partnership established by the Dean's Bureau of Research with the University of Sherbrooke, the Bureau of Research and Research Development promotes the expertise and scientific work produced at RMC Saint-Jean and contributes to the dissemination of scientific results. As of November 2020, a communication strategy was implemented to develop the dissemination of research conducted at RMC Saint-Jean with the creation of original content and an active presence on social networks.



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During the pandemic, the Dean's Bureau also established an internal communication tool, the Newsletter (succeeding to the Research Bulletin), to provide a communication space and link between the Dean's Bureau and the RMC Saint-Jean research community, to highlight the priority of research, innovation and creation during the pandemic.



**21**  
scientific  
conferences

**31**  
public  
conferences

**32**  
consulting  
reports and  
activities

## Research at RMC Saint-Jean

**1,300,000 \$**  
research grants

**24**  
scientific  
articles

**42**  
scientific  
publications

**6**  
books

**12**  
chapters

**4**  
special issues of  
scientific journals

# Innovative Research

## **The mathematical modeling of energy systems in a context of long-term reduction of greenhouse gas emissions**

The mathematical, techno-economic and environmental modeling of energy systems proposes technological solutions at minimal cost in order to satisfy long-term constraints on the reduction of greenhouse gas emissions. This research aims to develop the use of open source tools that can promote this type of modeling, particularly in North America. [Denis Lavigne, Principal Researcher, PRACD]

## **Transformation of regional security governance in the Sahel and effects on Sahelian state formation and opportunities for conflict prevention and resolution**

With these new theoretical models describing Sahelian governance, a UN peacekeeping mission in Mali and several other international actors are engaged in efforts focused on countering and preventing the spread of violent extremism. What forms of regional governance are these activities constructing? What are the competing visions of this regional security governance? These are the research questions that the project aims to answer [Bruno Charbonneau, Principal Researcher, SSHRC]

## **Synthesis and characterization of conductive latexes for their application as stealth coatings**

New latex paints based on conductive polymers could be applied to the surface of specific aircraft to make them stealthy, i.e. invisible to radar waves. Indeed, in the long term, it will be possible to find conductive polymers for latexes that will be able to absorb radar waves and dissipate them in the form of heat. As the waves cannot be re-emitted, the aircraft will become unnoticeable by the radar. These conductive latexes could have other applications, such as dissipating static electricity in sensitive areas like explosives factories. [Laurence Piché, Principal Researcher, PRACD]





## The place of drones in the evolution of security

To what extent is the integration, or even proliferation, of drones in European and Norwegian civil airspace transforming the sociotechnical imaginary, i.e. the vision of technology development as a common good, the conceptualization of security in this three-dimensional space, and the existing regulations to ensure safety, security, and privacy standards [Chantal Lavallée, Associate Researcher, RegulAIR Project - Research Council of Norway]

## Blood restriction and performance

This research focuses on the effects of muscle blood flow restriction associated with low intensity physical activities. The goal of such a project is to propose solutions to reduce the number of overweight (or obese) and/or muscle-injured CAF members, which would reduce the number of non-deployable CAF members. [Danialou, Gawiyou , PRACD]

## The borders of the pandemic

This research aims to understand how the border institution will be redefined in the long term, through the advent of more flexible mechanisms of closure and openness, and how border practices will contribute to redefine and accentuate some mobilities and immobilities. From vaccine passports to migration routes, mobilities in the North and South will be permanently defined by the effects of the pandemic. Elisabeth Vallet, Senior Researcher, MINDS & CIC]

## **The intellectual training of officers in in contemporary Western military academies**

Multidisciplinary in its approach, this research is articulated in the form of a fundamental reflection on the integration in officer training of intellectual skills such as cultural intelligence, critical thinking and general culture, in order to meet the new requirements resulting from the evolution of the operational and strategic environment in which the Western armed forces are currently evolving. [Danic Parenteau, Senior Researcher, PRACD]

## **Development of theoretical models describing the conductance of molecular electronic devices**

Thanks to these new theoretical models describing the conductance of molecular electronic devices, new functionalities are identified and can thus be integrated into nanoscopic electronic circuits. This work also allows to deepen the understanding of the behavior of electrons during transport phenomena. [Alexandre Giguère, Principal Researcher, FRED]

## **Political and security issues of alternative citizen autonomous digital communication networks**

The research focuses on practices of resistance to digital surveillance. The control of digital infrastructures and networks by resistance actors aims to ensure their independence and protection from state and commercial surveillance. The project seeks to understand the impact of these autonomous networks on the constitution of a democratic space, but also the consequences of these autonomous institutions on state security and the fragmentation of the Internet. [Simon Hogue, Principal Investigator, PRACD]

## **Defining humanitarian action in international law**

Humanitarian action, which by definition aims to “save lives, alleviate suffering and preserve human dignity in the face of man-made crises and natural disasters” includes both the provision of humanitarian assistance and “protection” to achieve full respect for the rights of the individual in accordance with the relevant bodies of law. This research provides the first comprehensive critical account of international law as it relates to humanitarian action in peacetime and during armed conflict, integrating the architecture, actors, rules, principles and legal norms of the international humanitarian system. Marina Sharpe, Humanitarian Action in International Law - Contract with Oxford University Press]



## Political violence and complexity

In the context of the war on terror and cyber attacks, influences on electoral processes and economic interference, global society is in a constant state of exception. Through the analysis of ruptures and the reorganization of the guiding principles articulating the conduct of political violence, the latter becomes a conceptual lens through which we capture systemic change and create a differentiated formulation of the international and the global. Integrated into this project is the establishment of a world observatory of grey zone conflicts. [André Simonyi, Research in Progress]

## Quebec and Conscription (1917-1918): An investigation into the ethnicization of a crisis

This research focuses on the historical and socio-cultural dimensions of the first conscription crisis in Quebec. The approach taken will be comparative in nature, situating the Quebec case in the context of resistance to compulsory conscription in the rest of Canada and elsewhere in the world, amely in the other dominions of the British Empire. This should lead to a deeper understanding of the dynamics of insurrectionary popular uprisings, as well as their various underlying resistance tactics of resistance that accompany them. [Béatrice Richard, Research in Progress]

### FUNDED RESEARCH

| BENEFICIARY          | PROJECT TITLE   | SOURCE                       | AMOUNT                 | DURATION               |
|----------------------|---|------------------------------|------------------------|------------------------|
| Christian Boudreault |   | FREDS                        | 3,000 \$               | 2019-2020              |
| Alexandre Bradette   |   | FREDS                        | 5,500 \$               | 2019-2020              |
| Yann Breault         | La relation Russie-OTAN face au démantèlement du régime de limitation des arsenaux nucléaires | PRACD                        | 4,580 \$               | 2020-2021              |
| Anne Caumartin       | Strategic meetings for CRILCQ programming : Release from the teaching task                    | Fonds de recherche du Québec | 32,000 \$<br>32,000 \$ | 2019-2020<br>2020-2021 |
| Anne Caumartin       | Strategic meetings for CRILCQ programming : Statutory supplement (cost of research work)      | Fonds de recherche du Québec | 7,000 \$<br>7,000 \$   | 2019-2020<br>2020-2021 |
| Bruno Charbonneau    | Repenser la sécurité et la défense à l'ère des changements climatiques                        | MINDS                        | 42,574 \$              | 2020-2021              |
| Bruno Charbonneau    | Intervention and the Transformation of Sahelian States in the Context of Violent Extremism    | SSHRC                        | 374,938 \$             | 2019-2023              |

## FUNDED RESEARCH (more)

| BENEFICIARY               | PROJECT TITLE   | SOURCE                     | AMOUNT                      | DURATION               |
|---------------------------|---|----------------------------|-----------------------------|------------------------|
| Bruno Charbonneau         |   | Centre FrancoPaix          | 20,000 \$                   | 2019-2020              |
| Bruno Charbonneau         | Intervention and the transformation of Sahelian States in the Context of Violent Extremism                                  | PRACD                      | 5,160 \$<br>5,020 \$        | 2019-2020<br>2020-2021 |
| Charles-Philippe Courtois | Les journaux canadiens-français et la crise de la conscription, 1916-1919   | PRACD                      | 5,215 \$<br>5,020 \$        | 2019-2020<br>2020-2021 |
| Gawiyou Danialou          | Blood Flow Restriction as a Novel Therapy for Treatment of overweight (obesity)   | PRACD                      | 4,000 \$<br>4,500 \$        | 2019-2020<br>2020-2021 |
| Gawiyou Danialou          | Blood Flow Restriction as a Novel Therapy for Treatment of overweight (obesity)   | STRD                       | 4,500 \$                    | 2019-2020              |
| Alexandre Giguère         | Modèle théorique d'un conducteur phononique   | FREDS                      | 3,000 \$                    | 2019-2020              |
| Simon Hogue               | Enjeux politiques et sécuritaires des réseaux de communication numériques autonomes alternatifs citoyens                    | PRACD                      | 2,290 \$                    | 2020-2021              |
| Marc Imbeault             | Éthique des missions médicales à court terme  | PRACD                      | 2,875 \$<br>3,000 \$        | 2019-2020<br>2020-2021 |
| Marc Imbeault             | Cochercheur, L'extrême droite au Québec : Acteurs, idéologies et prévention   | CEFIR                      | (304,253 \$)                | 2019-2022              |
| Chantal Lavallée          | The integration of drones in the Norwegian and European Airspaces   | Research Council of Norway | 86,859 \$<br>(1,762,750 \$) | 2021-2024              |
| Denis Lavigne             | Developpement of course content on ebergly modelling with OSeMOSYS and LEAP   | PRACD                      | 2,000 \$<br>2,500 \$        | 2019-2020<br>2020-2021 |
| Danic Parenteau           | Le développement de la culture générale dans la formation intellectuelle des élèves-officiers dans les académies militaires | PRACD                      | 2,013 \$<br>2,290 \$        | 2019-2020<br>2020-2021 |
| Laurence Piché            | Synthèse de latex conducteurs pour l'élaboration de peintures polymériques furtives   | PRACD                      | 4,200 \$                    | 2020-2021              |
| André Séguin              |   | FREDS                      | 1,000 \$                    | 2019-2020              |
| Élisabeth Vallet          | Borders in Globalization  | SSHRC                      | 59,250 \$<br>(2,300,000 \$) | 2019-2021              |
| Élisabeth Vallet          | Frontières et murs frontaliers  | SSHRC                      | 178 937 \$                  | 2019-2021              |
| Élisabeth Vallet          | Cinéma documentaire et géopolitique   | SSHRC                      | 45 000\$<br>(7 000 \$)      | 2019-2021              |
| Élisabeth Vallet          | Les frontières à l'ère de la COVID  | MINDS                      | 10 000 \$                   | 2019-2021              |
| Élisabeth Vallet          | Murs frontaliers et zones frontalières  | SSHRC                      | 49 318 \$                   | 2019-2021              |

# Research disseminated in the scientific world

## REFEREED CONFÉRENCES

BREAULT, Yann, *Le retour de la Russie dans le multilatéralisme ?*, École d'automne sur l'Union européenne - " Face à la crise du Covid, repenser le multilatéralisme ", Colloque international - Les Ateliers Schuman, Université Laval, 28 October 2020

CAUMARTIN, Anne, *La discrimination familiale comme art nécessaire*, Émergence des mythes contemporains, Arts, esthétique et politique, Congrès NeMLA, Boston University, Boston, U.S.A., 7 March 2020

CAUMARTIN, Anne, *Engendrement de Tristesse. Les coups de revers des progressions en mineur*, La modernité en revues, Pleins feux sur un siècle de revues québécoises, University of Ottawa, 29-30 May 2019

CAUMARTIN, Anne, *Les morts n'en veulent pas aux vivants, Examen de la violence comme processus*, Les sources de la violence, Mesures de la cruauté et de la méchanceté dans le discours littéraire, York University (in collaboration with University of Toronto and Ryerson University), 19 May 2019

COURTOIS, Charles-Philippe, *La modernité de Vivre et le groulxisme des années 1930*, La modernité en revues au Québec, University of Ottawa, 29-31 May 2019

COURTOIS, Charles-Philippe, *La commémoration au Québec au XXe siècle : carrefour mémoriel et identitaire*, UQAM, 22 May 2019

COURTOIS, Charles-Philippe, *La pensée éducative de Lionel Groulx*, La pensée éducative et les intellectuels au Québec : la génération 1875-1900, 6th annual symposium of the CRIPFE, Sheraton Center, Montreal, 26 April 2019

COURTOIS, Charles-Philippe, *National Self-Determination in Quebec and the new world order of 1919-1920*, Nationalism and Self-Determination, 29th ASEN, Annual Conference, University of Edinburgh, Edinburgh, Scotland, 24 April 2019

DANIALOU, Gawiyou, Alexis Labrie-Pichette, Guillaume Montpetit, Alain Steve Comtois, David St-Pierre, *Effects of Moringa Oleifera leaves on Body Weight*, Experimental Biology annual meeting, San Diego, U.S.A., 4-7 April 2020

DJEBABLA, Mourad, Id., *La difficile démobilisation des Canadiens en 1919 : la violence comme argument ultime*, Et après? Les retours de la Grande Guerre, Institut de recherches historiques du Septentrion, Université de Lille, France, 13 June 2019

IMBEAULT, Marc, *Dilemmes et enjeux éthiques des stages en santé mondiale : résultats préliminaires*, Activités scientifiques en sciences de la santé, Université du Québec en Abitibi-Témiscamingue, 2020

IMBEAULT, Marc, *Enjeux éthiques des missions médicales à court termes et éthique professionnelle militaire*, Canadian Institute for Military and Veteran Health Research, Ottawa, 2020

LAVALLÉE, Chantal, *Drones in the European airspace: Towards New Civil-Military Synergies*, EUSA International Biennial Conference, Denver Colorado, U.S.A., 10 May 2019

LUMMACK, Robert, *The Human Element of Complex Systems: Using a Structurationist Version of Complexity to understand Combatant Influence at the Tactical Level of War*, 2020 Workshop on Engineering Applications (WEA), Bogotá, Colombia, October 7-9 2020

LUMMACK, Robert, *Understanding Tactical Level Agency in Donbass Conflict*, European Research Group on Military and Society, Lisbon, Portugal, 17-21 2019



MONDÉLICE, Mulry, *The UN and the Haiti Cholera Case: Articulating the Rule of Law, Immunities and Responsibility of International Organizations in International Law*, Hague Academy of International Law, Zoom, 22 February 2021

MONDÉLICE, Mulry, *Repenser Haïti dans la diplomatie promouvant un droit global dans une société internationale en mutation*, Haitian Studies Association, 32nd Annual Conference, Nou La Pi Rèd! Embodying a New Praxis, Zoom, 10 October 2020

MONDÉLICE, Mulry, *Rapporteur du Groupe de travail sur les défis migratoires pour le XXI<sup>e</sup> siècle*, XXXV<sup>e</sup> Congrès de l'Institut international de droit d'expression et d'inspiration françaises (IDEF) sur les migrations internationales, Cairo, 23 April 2019

MONDÉLICE, Mulry, *Les migrations dans et depuis la Caraïbe*, XXXV<sup>e</sup> Congrès de l'IDEF sur les migrations internationales, Cairo, 22 April 2019

SHARPE, Marina, Oxford Handbook of International Refugee Law authors workshop, regional regimes: Africa, All Souls College, University of Oxford, Oxford, 2019

VALLET, Élisabeth, *Ceuta et Melilla: Les murs face aux migrations*, International conference : journées internationales sur la Méditerranée et le Moyen-Orient de SciencePo Grenoble, Grenoble, France, 30 November 2019

CHARBONNEAU, Bruno, Consultation workshop, Peace and Stabilization Operations Bureau (IDR), Global Affairs Canada, On the Canadian Assistance Policy in Mali, 20 October 2020

CHARBONNEAU, Bruno, Expert Consultation provided to two researchers from Saferworld (British NGO) on counter-terrorism and the European Union in the Sahel, 26 August 2020

CHARBONNEAU, Bruno, Expert Consultation provided to two researchers from CGIAR on climate security, 26 August 2020

CHARBONNEAU, Bruno, Expert Consultation provided to a researcher on the Sahel and MINUSMA, International Peace Institute, 11 August 2020

CHARBONNEAU, Bruno, Consultation, presentation of the report, UN Peacekeeping Review Team, 23 and 25 June 2020

CHARBONNEAU, Bruno, Consultation (conference call) on MINUSMA (Mali) for Global Affairs Canada (PSOPs), 7 February 2020

CHARBONNEAU, Bruno Consultation, Conference call on SDG's statistical model (TOSSD), OECD (Paris), 26 April 2019

CHARBONNEAU, Bruno, Open discussion between military members and academics, 2nd Division, BGen. Jeannie Carrigan, Montreal Garrison, 27 June 2019

CHARBONNEAU, Bruno, Consultation, workshops, training groups, Regional UN Service Center in Entebbe, Uganda, 5-6 November 2019 (invited by Floke Barnadotte Academy, Government of Sweden).

CHARBONNEAU, Bruno, Open discussion between military members and academics, 2nd Division, BGen. Gervais Carpentier, Montreal Garrison, 10 December 2019

COURTOIS, Charles-Philippe, Duplessis est encore en vie, Pierre Berthelot, published in 2021

COURTOIS, Charles-Philippe, *Le piège des langues officielle*, Québec et minorités francophones dos à dos, Éric Poirier, to be published in 2021

IMBEAULT, Marc, Member of the PhD Strategic Leadership Development Committee, Caribbean Military Academy, Jamaica Defense Force and University of the West Indies, Kingston, Jamaica, 2019-2020

IMBEAULT, Marc, Board member and Executive Committee member of the Association canadienne d'éducation des adultes des universités de langue française, 2019-2020

IMBEAULT, Marc, Member of the Graduate Program Committee on world health, Unité de recherche et d'enseignement en sciences de la santé, Université du Québec en Abitibi-Témiscamingue, since January 2019

LAVALLÉE, Chantal, European Commission, DG HOME, Virtual work group : Community of Users Workshop- Innovative Solutions to Mitigate UAS risk, 10 November 2020

PARENTEAU, Danic, Member of the Jury in the non-fiction category, Ottawa Book Awards

SHARPE, Marina, Global Canada, technical writer (one of several) of 'Reframing Canada's Global Strategy for 2020 and Beyond', a report by 13 experts and led by Robert Greenhill of Global Canada and Jennifer Welsh of McGill University, 2020

SHARPE, Marina, UNICEF (AU Liaison Office), background paper to inform UNICEF's engagement with the AU's year of refugees, returnees and IDPs, 2019

VALLET, Élisabeth, The US-Mexico Border Project -2019 – Exhibit Catalogue of the artist Susan Harbage Page, Gregg Museum of Art & Design – Raleigh, North Carolina

VALLET, Élisabeth, Les murs du désordre – Martin Bureau, Cinémathèque québécoise, vernissage 11 January 2019 – conference 21 February 2019

VALLET, Élisabeth, Presentation before the Port of Montreal's Board of Directors, March 2021

VALLET, Élisabeth, Presentation before Hydro-Quebec's Board of Directors, February 2021

VALLET, Élisabeth, Geopolitical Panel, Association des économistes québécois, Symposium, 28 November 2019

## ADDENDA

CLERMONT, Francis, *Éthique et Intégrité dans la profession des armes*, Training workshops and seminars, Directorate of Military Training and Cooperation, Grand Bassam, Ivory Coast, March 2017; Bogota, Colombia, October 2017, Commissioned by the Directorate of Military Training and Cooperation, National Defence



CHARBONNEAU, Bruno, *The Future of Barkhane in the Sahel*, Round Table, RAND Corporation, 4 March 2021

CHARBONNEAU, Bruno, *Contre-terrorisme et maintien de la paix*, Réseau d'analyse stratégique, Montreal, 22 January 2021

CHARBONNEAU, Bruno, *Renforcement des capacités*, L'ordre international fracturé : Implications pour la défense du Canada, Réseau d'analyse stratégique, Ottawa, 10-11 December 2020

CHARBONNEAU, Bruno, *Région du Sahel : enjeux humains, économiques, éducatifs et de sécurité*, Institut d'études internationales de Montréal, UQAM, 9 November 2020

CHARBONNEAU, Bruno, *Rethinking security interventions in the Sahel*, Turning the authoritarian tide: strategies for transforming securitisation, Saferworld, 28 October 2020

CHARBONNEAU, Bruno, *Maintien de la paix et gouvernance post-conflit*, International Forum on Peace, Security and Prosperity 2021, Webinar, 23 October 2020 (second part in February 2021)

CHARBONNEAU, Bruno, *Contre-insurrection et contre-terrorisme*, Réseau d'analyse stratégique, Webinar 16 October 2020

CHARBONNEAU, Bruno, *Climate Security in the Sahel*, CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS), Webinar, 3 September 2020

CHARBONNEAU, Bruno, *Covid and International Security*, Canadian International Council & The Bill Graham Centre, Webinar, 28 April 2020

CHARBONNEAU, Bruno, *The Imperial Legacies of Peacebuilding*, Postwar Colloquium, Kent State University, USA, 20-21 February 2020.

CHARBONNEAU, Bruno, *Protection of Civilians, International Law and UN Peacekeeping*, Regional UN Service Center in Entebbe, Uganda, 5-6 November 2019 (invited by Floke Barnadotte Academy, Government of Sweden)

CHARBONNEAU, Bruno, *Pathways to a Positive Trajectory in the Sahel*, US Department of State Bureau of Intelligence and Research & the National Intelligence Council, Washington DC, 15 August 2019

CHARBONNEAU, Bruno, *West African Security Challenges*, Canadian Forces College, Toronto, 7 May 2019

CHARBONNEAU, Bruno, *Lessons from the Sahel*, CDA Institute, Ottawa conference on Security and Defence, Ottawa, 12-13 February 2019

CLERMONT, Francis, *Savoir naviguer dans les eaux troubles de la complexité. Éthique et réflexivité de l'agir transformationnel*, HEC Montréal, Université de Montréal, MBA Course: Changer, webinar, 2 septembre 2020

CLERMONT, Francis, *Éthique et conformité*, Programme de certification en éthique et conformité, École des dirigeants, HEC Montréal, Module-Le leadership authentique, 18 septembre 2020

DJEBABLA, Mourad, *D'un armistice à l'autre : les mémoires antagonistes franco-allemandes du 11 novembre (1918-1940)*, La conférence des peuples : les héritages transnationaux de 1919, Royal Military College of Canada, Kingston, 7 November 2019

HOGUE, Simon, *Surveillance électronique, les applications de traçage et la COVID-19 : analyse de la situation*, CIC Montreal, CRITIC and Montreal Institute for Genocide and Civil Rights Studies, Webinar, 30 June 2020

HOGUE, Simon, *L'application de traçage des contacts de Google et Apple dans la lutte contre la COVID-19 : protection de la vie privée et gouvernance néolibérale*, Launch of the scientific season of the Centre international de criminologie comparée, Montreal, 29 October 2020



LAVALLÉE, Chantal, *The Public: Responsibilities and Responses*, High-Level International Conference on countering the threats posed by unmanned aircraft systems (UAS), European Commission, Brussels, Belgium, 17 October 2019

LAVALLÉE, Chantal, *The Societal Concerns*, European Aviation Safety Agency (EASA) High-level Conference on Drones, Drone Week, Amsterdam, Netherlands, 5 December 2019

LAVALLÉE, Chantal, *Quel avenir pour le multilatéralisme, l'Union européenne et la diplomatie des sommets face aux enjeux de sécurité ?*, École d'automne sur l'UE sur Face à la crise de la COVID-19, repenser le multilatéralisme, Chaire Jean Monnet en intégration européenne, Université Laval, online conference, 28 October 2020

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PARENTEAU, Danic, *On becoming an officer: the education of officership in contemporary liberal democracies*, International Military Academic Forum (iMAF), Reichenau-an-der-Rax, Austria, 2019

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CLERMONT, Francis, *Briser les barrières et rapprocher les intervenants*. Symposium on Systems thinking and design, Canadian Forces College, Royal Military College Saint-Jean, 11-12 April 2017

LUMMACK, Robert, *Why Militaries need to Understand the WPS Agenda*, Innovative Methodologies for Defence Challenges, St. Paul University, CMRSJ, CNSS, CFC, CIPS, January 31st 2018

LUMMACK, Robert, Elsie Initiative Workshop, (Co-Facilitator - Technical Assistance and Training Breakout Group), Global Affairs Canada, Ottawa, Ontario, 2018

LUMMACK, Robert, *Systems Thinking*, National Security Programme, Canadian Forces College, 2018

LUMMACK, Robert, *Teaching Systems Thinking and Design to Senior NCMs*, Breaking Down Silos and Connecting Stakeholders: A Symposium on Systems Thinking and Design, Royal Military College, Saint-Jean/Center for National Security Studies, 2017

BREAULT, Yann, *La Russie et son rôle de superpuissance énergétique*, conférence offerte dans le cadre du cours Relations internationales : puissance, rivalités, anarchie, Collège Jean de Brébeuf, Montreal, 26 February 2021

COURTOIS, Charles-Philippe Conférence, *Le nouvel ordre mondial de 1919-1920 et le nationalisme québécois*, Bibliothèque Gaston-Miron, Université Sorbonne-Nouvelle, Paris, 17 October 2019

COURTOIS, Charles-Philippe, *Du nationalisme canadien-français au nationalisme québécois, 1917-1967*, présenté dans le cadre du séminaire de master en histoire de Jean-Noël Grandhomme, Université de Lorraine, Nancy, 16 octobre 2019

COURTOIS, Charles-Philippe, *Du nationalisme canadien-français au nationalisme québécois, 1917-1967*, presented to history graduate students upon invitation of professors François Audigier and Julie d'Andurain, Université de Lorraine, Metz, 15 October 2019

COURTOIS, Charles-Philippe, *Lionel Groulx, 1878-1967 » : 3e Conférence « Grandes figures de notre histoire : le siècle de la Révolution tranquille*, Grande bibliothèque, Montreal, 1er December 2020

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VALLET, Élisabeth, *COVID-19 and Borders: North American Borders, Trust, and the Coronavirus*, Centre for Global Studies, University of Victoria, 15 April 2020 (online conference)

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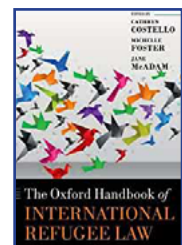
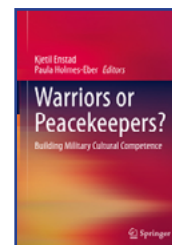
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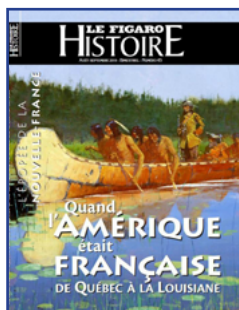
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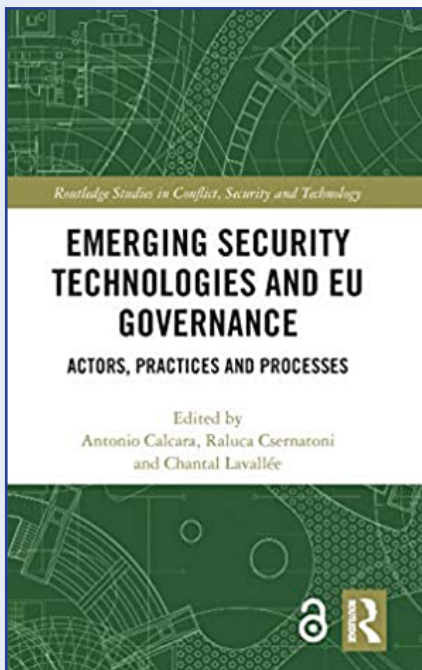
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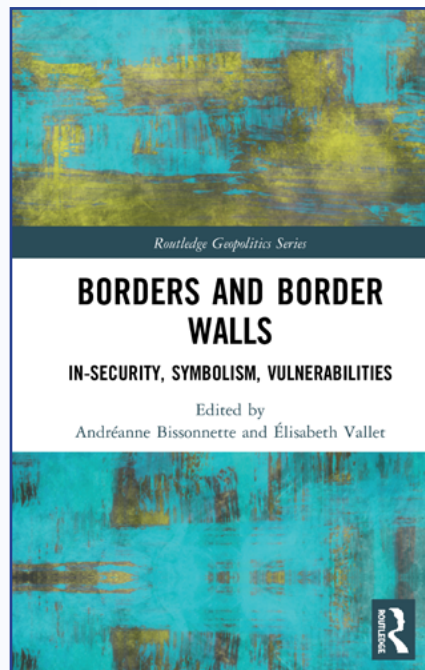


# Books



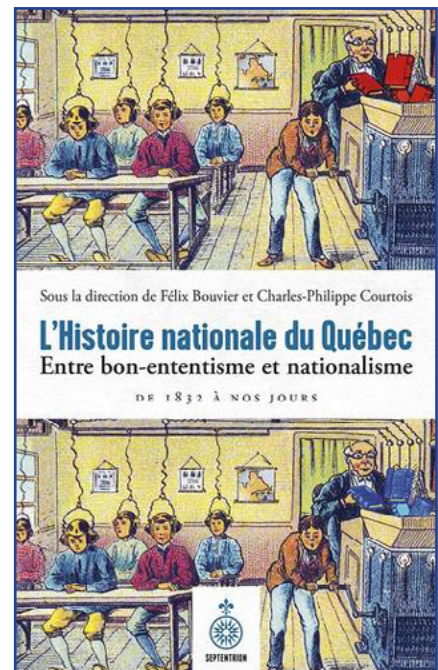
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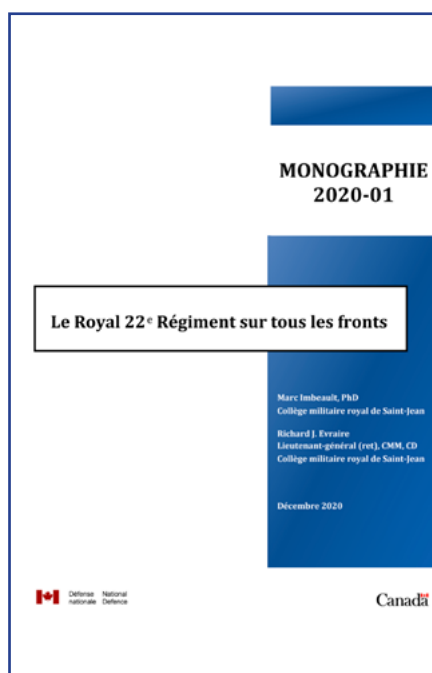
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**ÉLISABETH VALLET  
and al.**  
*Les reculs en relations  
internationales -  
Comment Trump a  
changé le monde*

The Trump presidency has been atypical. It has clearly been a turning point in the history of American leadership. This book examines its legacies in international relations, those that will prove ephemeral, and those that are likely to be irreversible.



**ÉLISABETH VALLET**  
*Comprendre les  
élections présidentielles  
américaines – La course  
à la Maison-Blanche*

The conquest of the White House is a saga that absorbs astronomical sums of money and stirs up the brackish waters of the candidates' past. It is followed, like the Hunger Games, like a television series where only the most cunning, the most connected, the most affluent survive.



# Research in Networks

**RMC Saint-Jean researchers also participate in networked research projects and serve on committees of prestigious journals and scientific committees of academic institutions around the world.**

## RESEARCH NETWORKS

LAVALLÉE, Chantal, Réseau d'analyse stratégique (RAS), funded by Mobilizing Insights in Defence and Security (MINDS), coordinated by Stéphanie von Hlatky (Queen's) and Justin Massie (UQAM), 2020.

LAVALLÉE, Chantal, Transnational Academic Network for the Study of Armed Drones (TRANSAD), funded by Open Society Foundations and coordinated by Peace Research Institute Oslo (PRIO), 2018-2020

VALLET, Élisabeth, Member of the Scientific Committee, Chaire Raoul-Dandurand en études stratégiques et diplomatiques de l'UQAM

VALLET, Élisabeth, Association for Borderland Studies, Bord member.

VALLET, Élisabeth, Direction de l'antenne québécoise ("Quebec Lead") - Borders in Globalization – Network funded by the SSHRC

SHARPE, Marina, Membre invité, UNHCR's Global Academic Interdisciplinary Network

## COMMITTEE

SHARPE, Marina, Member of the Editorial Committee, International Journal of Refugee Law

SIMONYI, André, Member of the Editorial Committee, Journal de l'armée canadienne – Canadian Army Journal

VALLET, Élisabeth, Member of the Editorial Committee, Journal of Borderland Studies, Routledge

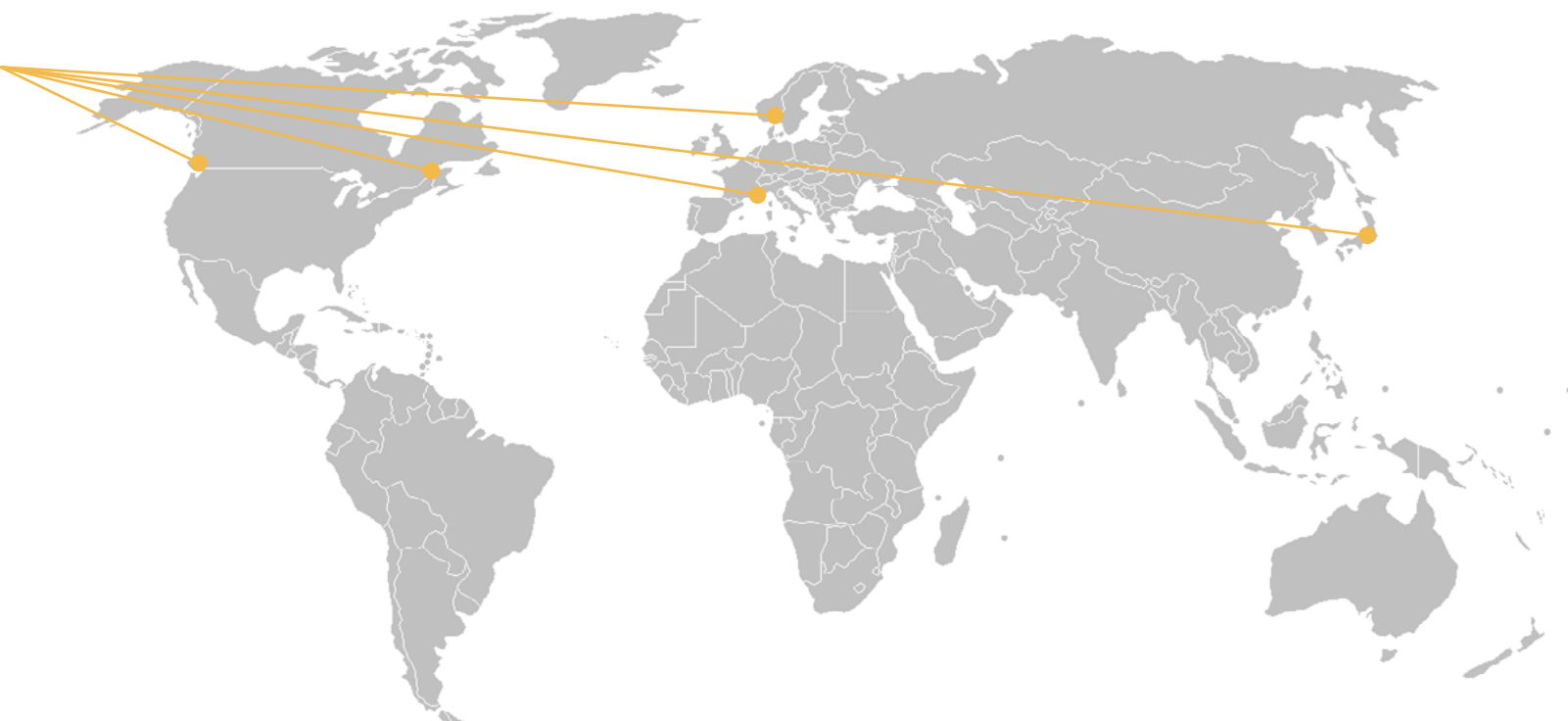
VALLET, Élisabeth, Member of the Editorial Committee, Geopolitics, Routledge

VALLET, Élisabeth, Member of the Editorial Committee, Politique américaine, L'Harmattan

VALLET, Élisabeth, Member of the Scientific Committee, New International Insights/Nouveaux Regards sur l'International, Peter Lang

VALLET, Élisabeth, Co-director of the Collection Enjeux contemporains aux Presses de l'Université du Québec





# Research in the Media

Frequently quoted in the media in Quebec, Canada, the United States and Europe, RMC Saint-Jean researchers are also called upon to write columns and are solicited for their expertise in the television and radio media.



## Indicative list

BREAULT, Yann, Navalny, retour en Russie et arrestation, interview with Anne-Marie Dussault, 24/60, RDI, 18 janvier 2020

BREAULT, Yann, Alexei Navalny: après le poison, la prison, interview with Annabelle Caillon, Le Devoir, 18 janvier 2020

BREAULT, Yann, Intensification du conflit dans le Haut-Karabakh, interview with Michel Desautels, Desautels le dimanche, Ici Première, 18 octobre 2020

BREAULT, Yann, Alexei Navalny, empoisonné par le Kremlin?, interview with Anne-Marie Dussault, 24/60, RDI, 20 août 2020

BREAULT, Yann, Marche monstre contre Loukashenko, interview with Sébastien Desrosiers, L'info, Ici RDI, 16 août 2020

DJEBABLA, Mourad, On 24 september 2020, interviewed by the production team of KOTV on the topic of the First World War in preparation of a documentary serie intitled Sur ta rue to be broadcast in April 2021 on Canal D

HOGUE, Simon, The posponed launch of the COVID-19 tracing application, intervention on the radio show Région zéro 8, Ici Première, Radio-Canada, 2 July 2020

HOGUE, Simon, The posponed launch of the COVID-19 tracing application, intervention on the radio show Jonction 11-17, Ici Première, Radio-Canada, 2 July 2020

HOGUE, Simon, The launch of the federal tracing app undefinately posponed, intervention on the radio show L'heure de pointe Toronto/Windsor, Ici Première, Radio-Canada, 2 July 2020

HOGUE, Simon, The posponed launch of the COVID-19 tracing application, intervention on the radio show La croisée, Ici Première, Radio-Canada, 2 July 2020

HOGUE, Simon, The posponed launch of the COVID-19 tracing application, intervention on the radio show Boulevard du Pacifique, Ici Première, Radio-Canada, 2 July 2020

VALLET, Élisabeth, Le Devoir – Cahier Perspectives (32 columns)

VALLET, Élisabeth, Plus on est de fous plus on lit, Radio-Canada (6 columns)

VALLET, Élisabeth, Dessine-moi un dimanche, Radio-Canada – Chronique géopolitique (23 columns)

VALLET, Élisabeth, La colère des peuples, Le téléjournal 22h, 17 December 2019

VALLET, Élisabeth, États-Unis : trop peu, trop tard ?, Tout le monde en parle, Radio-Canada, 12 April 2020

VALLET, Élisabeth, RDI Special broadcast (election debates and evening – September 2020 to January 2021) with Patrice Roy for the special broadcast on ICI RDI

VALLET, Élisabeth, 2020 will mark us all, for the rest of our lives, Boston Globe, 5 June 2020

VALLET, Élisabeth, Le Canada retient son souffle avant l'élection américaine, Le Monde, 29 September 2020

VALLET, Élisabeth, Almost one year since restrictions to most US-Canada border travel, NBC5 News, 2 March 2021

# Centre for secuRITy and crlsls governanCe (CRITIC)

**CRITIC contributes to the construction of a university culture advocating excellence in research and teaching. CRITIC's research activities are not and will never be dissociated from the mission of training officer cadets. Its activities aim, among other things, to implement practices that will put an end to the false dichotomy between research and teaching. The quality of the curriculum depends on the excellence and rigor of research activities.**

The objectives of the Center on Security and Crisis Governance (hereafter CRITIC) are:

- To promote the production and dissemination of cutting-edge research on a variety of issues in global governance, national and international security, and crisis and risk management.
- To contribute to the development of Canadian and international academic research, public policy debates, and the education and training of students at Royal Military College Saint-Jean (RMC Saint-Jean)
- To support, stimulate and develop collaboration in research projects within and outside of RMC Saint-Jean.
- To support, stimulate and develop a fundamental research capacity within the RMC Saint-Jean and rooted in academic freedom and responsibility.
- To ensure a capacity for analysis and rapid reaction to intervene on strategic or current issues.

Bruno Charbonneau, Director (2019-2021)

Chantal Lavallé, Co-Director (2019-2021)







**CRITIC**

Centre sur la Gouvernance Sécuritaire et de Crise

# COVID-19 and the Future of Global Order

The COVID-19 pandemic demonstrates the intertwining of multiple governance crises and a health crisis. It highlights the preparedness and responses of governments, international organizations and other actors. The medical sciences can, will, and have found solutions to deal with COVID-19. However, solutions are chosen and implemented via political decisions in specific contexts of socioeconomic governance, social relations, and power. The contributions in this report complement each other to offer insight into the multifaceted and multidimensional challenges that COVID-19 presents to global order, international cooperation, and democratic governance.

The report confirms the need for more research and the importance of adopting multidisciplinary approaches to examine the different consequences of COVID-19. (Report directed by Bruno Charbonneau and Chantal Lavallée)

With contributions from Yann Breault, Bruno Charbonneau, Chantal Lavallée, Mulry Mondelice, Marina Sharpe, Élisabeth Vallet.

Published in 2020.



11 FÉV 2021 / FEB. 11, 2021  
EN LIGNE / ONLINE

# Leadersphère

Colloque virtuel "L'an 1 de l'ère COVID-19"  
Virtual conference "Year 1 of the COVID-19 Era"



The Leadersphere Conference brings together speakers and participants from a variety of backgrounds each year at Royal Military College Saint-Jean (virtually for 2021) to discuss the challenges facing Canadian leadership in the current national and international environment. Offering a cross-section of perspectives on the security, strategic and operational issues facing Canada, this conference provides a forum for debate on themes and issues at the heart of current events and scientific research that can inspire the thinking, discussions, decisions and actions of today's and tomorrow's leaders. It is also a place of outreach for the activities of RMC Saint-Jean and the research it produces. (2017 edition - organized by Francis Clermont, 2020 and 2021 editions - organized by Bruno Charbonneau and Chantal Lavallée)

**COLLOQUE SUR LE LEADERSHIP**  
**LEADERSPHÈRE 2017**  
**LEADERSHIP SYMPOSIUM**

11 MAI / MAY 2017

**CANADIAN LEADERSHIP FOR 2025**  
**LEADERSPHÈRE**

**13 February 2020**  
Royal Military College Saint-Jean

Colloque virtuel  
**LEADERSPHÈRE**  
Virtual Conference

11 février 2021 dès 10h00  
February 11th 2021 at 10:00am



## Activities 2019-2020

| Cycle of conferences                                       | Date and place  | Number of participants (approx.)                                    |
|--|---|---|
| Prof. Charles-Philippe David, UQAM                         | 18 September 2019<br>RMC Saint-Jean   | Packed room : 65 OCdts, military members, academics and civilians   |
| Prof. Stéphanie Chouinard, RMCC                            | 23 October 2019<br>RMC Saint-Jean   | 45 OCdts, military members, academics and civilians                 |
| Prof. Jennifer Welsh, McGill University                    | 20 November 2019<br>RMC Saint-Jean  | Packed room : 65 OCdts, military members, academics and civilians   |
| Prof. Marijn Hoijtink, VU Amsterdam                        | 9 December 2019<br>RMC Saint-Jean   | 45 OCdts, military members, academics and civilians                 |
| Prof. Stéphanie von Hlatky, Queen's University             | 15 January 2020<br>RMC Saint-Jean   | 45 OCdts, military members, academics and civilians                 |
| Mr Sylvain Laporte, President of the Canadian Space Agency | 27 February 2020<br>RMC Saint-Jean  | Packed room : +100 OCdts, military members, academics and civilians |
| Prof. Bruno Charbonneau                                    | 12-13 February 2019<br>Conference of Defence Associations Institute, Ottawa | +200 military members, academics, etc.                              |

| Colloque          | Date and place   | Participants  |
|-------------------|------------------|---|
| Leadersphere 2020 | 13 February 2020 | +150 OCdts, military members, academics and civilians |

| Experience ÉLOF  | Date and place              | Participants   |
|--|-----------------------------|--|
| International Studies Association, convention annuelle | 27-30 March 2019<br>Toronto | Prof. Charbonneau, Prof. Simonyi, Prof. Lavallée and 3 OCdts |
| Forum Saint-Laurent, annual symposium                  | 2-3 May 2019<br>Quebec      | Prof. Charbonneau, Prof. Legault and 3 OCdts                 |

## Activities 2020-2021

| Publications  | Manager                                | Description  | Number of participants (approx.)     |
|---|--|--|--------------------------------------|
| COVID-19 et l'avenir de l'ordre mondial / COVID-19 and the Future of Global Order | Bruno Charbonneau and Chantal Lavallée | Report that emerged of the reflection on the COVID-19, published in August 2020 on the RAS website | 14 professors; 7 from RMC Saint-Jean |

|                             |  |  |               |
|-----------------------------|--|--|---------------|
| Macdonald-Laurier Institute | Bruno Charbonneau, Christian Leuprecht, Shahar Hameiri, Nancy Teeple | Blog posts published following the C19 report, August-October 2020 | 4 researchers |
|-----------------------------|--|--|---------------|

|   |                   |  |               |
|---|-------------------|--|---------------|
| Forum on COVID-19 International Journal | Bruno Charbonneau | Special forum published following the C19 report, March 2021 | 5 researchers |
|---|-------------------|--|---------------|

| Conferences  | Manager       | Description  | Number of participants (approx.) |
|--|---------------|--|----------------------------------|
| Démystifier l'autre : les relations entre civils et militaires | Marina Sharpe | Conference organized in collaboration with the Red Cross (ICRC), 16 March 2021 | 50 from RMC Saint-Jean and RMC   |

|   |                   |   |  |
|---|-------------------|---|--|
| Surveillance électronique, les applications de traçage et la COVID-19 | Bruno Charbonneau | Webinar organized in collaboration with MIGS (Concordia) and the CIC (Montreal), June 30 2020 |  |
|---|-------------------|---|--|

|   |                  |  |           |
|---|------------------|--|-----------|
| DHSS Conferences  | Chantal Lavallée | Conferences for OCdts organized in collaboration with the DHSS, from January to March 2021 | 40 to 100 |
| Élisabeth Vallet<br>Yann Brault<br>Bruno Charbonneau<br>Simon Hogue |                  |  |           |

| Symposia     | Manager           | Description  | Number of participants (approx.) |
|--------------|-------------------|--|----------------------------------|
| Leadersphere | Bruno Charbonneau | 11 February  | Nearly 500                       |
| Forum PSP    | Bruno Charbonneau | Participation in the organization of the PSP Forum, February 18-19 |                                  |



# Professional Military Education Department

**The eighteen teachers of the Professional Military Education Department (PMED) participate in the professional development of the Canadian Armed Forces (CAF) non-commissioned members (NCMs) since 2003. Integrated into the Academic Wing of Royal Military College Saint-Jean in 2014, they teach at the Chief Warrant Officer Robert Osside Profession of Arms Institute (Robert Osside Institute).**

Four development programmes are offered by the Robert Osside Institute : the Intermediate Leadership Programme (ILP), leading to a promotion to the rank of petty officer first class/warrant officer; the Advanced Leadership Programme (ALP), leading to a promotion to the rank of chief petty officer second class/master warrant officer; the Senior Leadership Programme (SLP), leading to a promotion to the rank of chief petty officer first class/chief warrant officer; and the Senior Appointment Programme (SAP), allowing chief petty officer first class and chief warrant officers to be designated to a senior appointment position. The PMED members teach the entire distance learning curriculum and actively participate within the residential courses of the Robert Osside Institute, in close collaboration with its military directing instructor staff.

PMED is exclusively composed of teachers with a social sciences' background, the profession of arms being a multidisciplinary field of research combining political science, history, sociology, psychology, philosophy and management. Given the specificities of the profession of arms as an object of study, PMED personnel have developed over the past seventeen years a unique expertise related to its application among the CAF non-commissioned members corp. Its teachers are directly involved in the development

Number of  
qualified persons  
**2019-2021**

**67**

Senior Appointment  
Programme

**307**

Senior Leadership Programme

**1101**

Advanced Leadership  
Programme

**1939**

Intermediate Leadership  
Programme





of the content for the non-commissioned members' professional development programs and they often act as advisers when these issues are at the institutional level.

**The profession of arms is a concept in constant evolution that must continually be redefined based on the values of the people it serves and represents.**

The profession of arms is a concept in constant evolution that must continually be redefined based on the values of the people it serves and represents. Consequently, the work and research of the members of the PMED mainly aims to ensure the organizational and institutional culture of the CAF are aligned with the expectations of Canadian society towards its armed forces. Thus, in recent years, subjects such as ethics, diversity, cultural intelligence, child soldiers or gender-based analysis have either appeared or have taken growing importance in the Robert-Osside Institute's curriculum, requiring the direct involvement of the PMED.

The variety of research interests of PMED members can be linked to the multidisciplinary nature of their study, the profession of arms, and all remain connected to the mission of the Robert Osside Institute. In the years covered by this report, the specific needs of the Robert Osside Institute's programs have enabled PMED teachers to deepen their knowledge and conduct research on subjects such as systems thinking, the increasing complexity of military operations, the application of psychometric tools or military sociology. The military history of Canada also remains a subject of interest for the teachers of the PMED, who now apply it in a more professional and institutional perspective.

In addition to their primary responsibility in the education of NCMs, the PMED teachers are also fully Committed to RMC Saint-Jean's mission of promoting its national and international influence while supporting other departments of the Academic Wing in their tasks with officer cadets.

Sébastien Hinse, Department Head (2019-2021)

MILITARY HISTORY  
MILITARY SOCIOLOGY  
OF CANADA  
child soldiers  
GENDER-BASED ANALYSIS  
diversity  
ethics  
SYSTEMS THINKING  
COMPLEXITY OF MILITARY OPERATIONS  
cultural intelligence

# Department of Humanities & Social Sciences

The Department of Humanities and Social Sciences provides training at two levels. On the one hand, the certificate and bachelor's degree programs in international studies focus on the study of dynamic relations involving states, international organizations and non-state actors on the international scene. They thus provide students with a general education that enables them to develop critical thinking skills in the analysis of major contemporary challenges and issues in several fields. More specifically, the bachelor's program draws on a variety of disciplines including political science, law, history, geography, literature, psychology, communication, foreign languages and other areas of cultural studies.

It also provides cadets with the range of humanities and literature courses essential to their training, not only for the eventual completion of a diploma of college studies or the prerequisites for university studies at the RMC Saint-Jean or the Royal Military College of Canada, but also with a view to making them future officers with an excellent general culture. Generally interdisciplinary, the research of professors teaching in the Bachelor of International Studies program aims to decipher and analyze the dynamic relationships involving international actors on the world stage. Consequently, the department's professors produce and disseminate knowledge on numerous contemporary challenges and issues in the fields of peace and security, development and human rights in international relations and global governance.

Charles-Philippe Courtois, Department Head  
(since 2019)

Mélissa Lévesque, Acting Co-Director (2021)

Mulry Mondélrice, Acting Co-Director (2021)





# Cycle of conferences of DHSS

## *International Political News*



### GÉOPOLITIQUE CLIMATIQUE CLIMATE GEOPOLITICS

Présentation par  
**Bruno Charbonneau**



### SURVEILLANCE ET UNIVERS NUMÉRIQUES À L'ÈRE DE LA COÏD

Présentation par  
**Simon Hogue**



### LA GUERRE POUR L'ARTSAKH : UNE VICTOIRE RUSSE ?

Présentation par  
**Yann Breault**



### LES ÉLECTIONS PRÉSIDENTIELLES AMÉRICAINES

Présentation par  
**Élisabeth Vallet**

# Department of Languages

**The Department of Languages is composed of five permanent teachers and as many contractual teachers, a director and an assistant. Its mission is to provide French and English as a Second Language courses as well as Spanish courses to approximately 200 officer cadets each year.**

There are seven courses at different levels in French as a Second Language, five in English as a Second Language (including one course that is a pilot project) and five in Spanish. A placement test is used to create homogeneous groups before the beginning of the courses. The limit of students per group is ten.

The language department's teaching is centered on the needs of the student. Classes are personalized and promote interaction and commitment, which are central to language acquisition.

**Teachers apply the guiding principles of the communicative approach, which aims to “teach language in its social dimension, understand discourse from a global perspective, and focus on meaning.” (Cuq and Gruca, 2003)**

The teachers hold a master's degree in the field of languages or language didactics and apply effective methods to facilitate learning. They advocate the action approach, characterized by the use of the target language in context and by projects. This approach is based on the realization of a socio-language action. It implies the joint realization of a project and is meant to be participatory. In this sense, many field projects were carried out by the teachers during the targeted period.

In addition, the teachers take advantage of technological tools and digital platforms in their teaching: flipped classroom, use of video for viewing or recording, language learning software, development of online questionnaires, collaborative documents, podcasts, etc.

Sara Trottier, Department Head (2019-2021)





## Annual colloquium of the Department of Languages

2019

Identifying Teacher Leadership Strategies Through Reflective Practice

Technological Aids : Vision, Audacity, Voice Path

Partnership projects between teachers and the public affairs team

Writing in the Discipline: a concrete application in second language teaching

Finding Real-World Authenticity in Grammar Instruction

Integration Project - Learning French through Community Engagement

The flipped classroom

Online interaction and cooperation : new skills to explore

French teaching at the Corean military academy

2020

Heavy Topics. Techniques for Teaching the Holocaust & Rwanda in the Online and Regular Classroom

Student Readiness for Online Learning

Padlet : the online hub for your distance course

BILA tasks and challenges

TUTORING Project : Fostering motivation and learning of French through peer learning

Creating online surveys with Netquiz Web+

Teacher Identity and student collaboration projects (MTCP exchange and Mental Health unit)

Recording on Facebook

Statistics for evaluation: is my question at the right level?

Authenticity in Second Language : a project in English102

Autopsy of a favorite project : assessment of the Moi, je m'implique en français project

# Department of Science

**The mission of the Department of Science (DoS) is on one hand to support officer cadets in developing scientific skills by offering them a stimulating environment conducive to learning and to their personal development and, on the other hand, it's to achieve research aimed at expanding scientific knowledge and improving the lives of Canadians and Canadian armed forces more specifically.**



The influence of the department and its excellence is ensured by the participation of its members in the activities of the scientific and academic community. Modelling is at the centre of several research projects at the department. We find expertise in energy modelling, molecular electronics, quantum computing and biophysics. In addition to the modelling efforts taking place within the department, research projects in physiology and polymer chemistry are underway.

The teaching staff offers high-quality education and organizes many activities allowing the officer cadets to develop and widen their scientific knowledge. Among others, the Math and Science Club's conferences, the annual scientific outing and the integrative activity in science projects present the officer cadets with a rich and diverse menu to an existing high-level academic program.

Finally, the department welcomed two new staff members which enhances its expertise. These are teachers Liu and Lazure who teach technical drawing/physics and mathematics respectively.

Alexandre Giguère, Department Head (2020-2021)  
Gawiyou Danialou, Department Head (2019-2020)



## $\pi$ THE NUMBER PI HOLIDAY

The number Pi holiday was celebrated on March 13, 2020, at Royal Military College Saint-Jean. Officer Cadet, Keaton Comfort, enumerated the first 679 decimal places of  $\pi$  without fail. He even made it to 1010 decimal places, after a slight error. As he performed in front of a panel of judges, his name will now appear on the “Pi World Ranking List” of people who have recited a record number of decimals of Pi.

EDUCATION  
 EXPERTISE  
 PHYSIOLOGY  
 biophysics  
 POLYMER CHEMISTRY  
 ENERGY  
 MODELING  
 scientific  
 MATHEMATIC  
 REGENERATION  
 MOLECULAR ELECTRONICS  
 quantum computing  
 Math and Science Club



# Faculty Members

## Department of Science



Alexandre Giguère  
*Directeur*



Christian Boudreault



Gawayou Danialou



Frédéric Jetzer



Rodrigue Kéou



Denis Lavigne



Josyane Lazure



Calvin Liu



Laurence Piché



Philip Rempel

## Professional Military Education Department



Sébastien Hinse  
*Directeur*



Éric Bégin



Marc-André Bergeron



David Boulanger



Benoît Boutet



Alexandre Bradette



Francis Clermont



Mourad Djebabla



Philippe Langlois



Marie-Hélène Leclerc



Robert Lummack



Jean-François Marcoux



François Martel



Mélanie Paquette



Manisha Patel



Maxime Rondeau



André Séguin



Lisa Tanguay



## Department of Languages



Sara Trottier  
*Directrice*



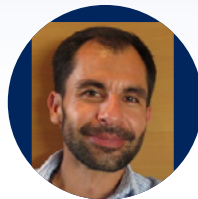
Krystel Boucher



Anne Danford-Dussault



Isabelle Lépine



Edwin J. Parrado Mora



Margaret Wells

## Department of Humanities and Social Sciences



Charles-Philippe  
Courtois - *Directeur*



Alain Biage



Yann Breault



Anne Caumartin



Bruno Charbonneau



Luke Dilworth



Geneviève Denis



Annick Girard



Simon Hogue



Marc Imbault



Chantal Lavallée



Roch Legault



Mélissa Lévesque



Mulry Mondélice



Marie Parent



Danic Parenteau



Ian Parenteau



Martin Poëti



Mélanie Provost



Béatrice Richard



Marina Sharpe



André Simonyi



Manon Turgeon

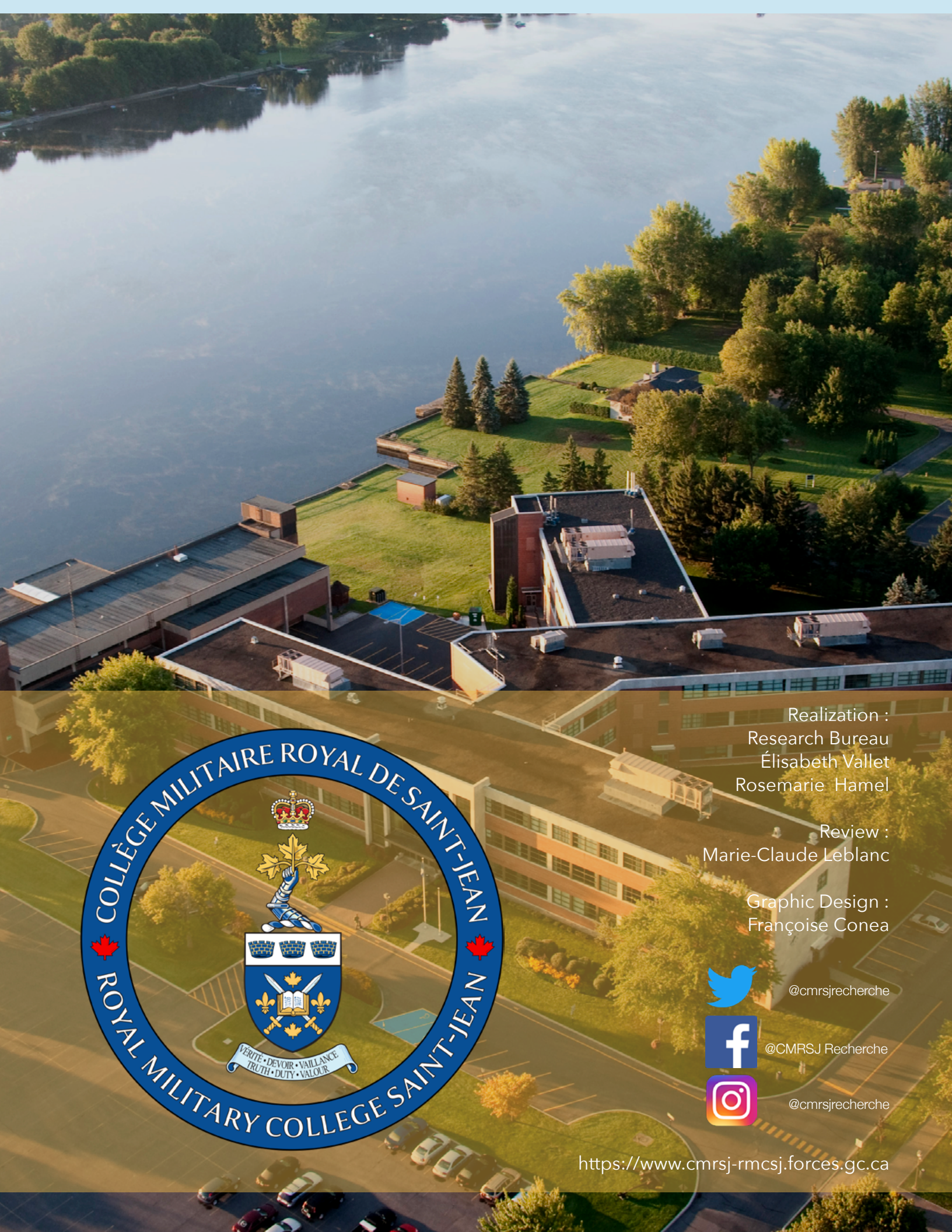


Élisabeth Vallet



Mario Zarza





Realization :  
Research Bureau  
Élisabeth Vallet  
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Review :  
Marie-Claude Leblanc

Graphic Design :  
Françoise Conea



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