

*Centre for*  
**ADDICTIONS  
RESEARCH<sup>OF BC</sup>**

**Annual Report**

**April 1, 2005–March 31, 2006**



**University  
of Victoria**

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*The Centre for Addictions Research of BC (CARBC) is an official research centre at the University of Victoria, supported by a partnership with four other major post-secondary institutions in the province—University of British Columbia, Simon Fraser University, University of Northern British Columbia, and Thompson Rivers University.*

*Since its inception in 2003, CARBC has developed relationships with a large network of addictions-related agencies in BC. An independent research centre, CARBC sits at arms length from government while working on shared concerns with multiple government departments, including health, police, education, and liquor licensing.*

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*The creation of CARBC was first recommended in 2001 by a task group consisting of health practitioners, community partners, and government officials who were appointed by the BC government to make recommendations on the future of addictions services. In response to the task group's report, the government created and resourced the BC Addictions Foundation (BCAF) with a mandate to create a research Centre. In 2003, the BCAF entered into an agreement with the University of Victoria to provide leadership for the centre. In 2005, following the development of a detailed strategic plan, CARBC became officially recognized as a province-wide addictions research organization.*

## Message from the Advisory Board Chair

Over the past year, the Centre for Addictions Research of BC (CARBC) has continued to show remarkable progress. Among our significant accomplishments have been:

- The addition of new faculty and research staff—John Anderson, Benedikt Fischer, Scott Macdonald (Faculty), plus many research associates, students, and assistants. Currently, there are eleven people in the Vancouver office, and soon there will be 22 staff members, plus students, in Victoria.
- The award of a Canadian Institutes of Health Research new emerging team grant, involving a group consisting largely of new CARBC members and site directors, as well as other BC researchers.
- The award of large knowledge exchange contracts from both the BC government and the federal government, including \$2.5 million for tobacco prevention to the Communication and Resource Unit under the leadership of Dan Reist.
- The establishment of new offices in Victoria and Vancouver.
- The award of a major new contract by the Provincial Health Services Authority, with contributions from Health Canada, BC Ministry of Health, regional health authorities, the BC Mental Health Addictions Research Network, and the Solicitor General's Office for piloting a national alcohol and other drug monitoring system in BC and Ontario.
- A substantial increase in media coverage on alcohol-related issues, with over 150 international and local media hits from just two papers.

Based on these accomplishments and others detailed in this report, it is clear that CARBC has become a critical resource in the field of addictions, not only in BC but also in other parts of Canada and in the international arena.

This is due in no small measure to the extraordinary skills and hard work of the CARBC's director, Tim Stockwell. There is no question that we made an excellent decision in choosing Tim to lead the centre. Australia's loss has certainly been our gain! However, it is also due to the contributions of other staff in the centre, research associates, and students, as well as collaborators from other universities, colleges, and organizations that have been working with CARBC over the past year. On behalf of the board, I would like to express our gratitude to all of them. As the chair of the board, I would also like to thank the other members of the board for their contributions.

It is with some regret that I will be stepping down as chair of the advisory board at its next meeting in September, after having served in the position for three years. As I mentioned in my message in last year's annual report, it has been a delight for me to chair the board, and I will miss being in the "front row," observing CARBC's remarkable progress. I wish my successor success in fulfilling their responsibilities, and assure them that whatever effort they put into doing so will be repaid through the contribution that CARBC will continue to make toward finding solutions for problems related to the misuse of alcohol and other substances. In closing, I would like to express my sincere thanks to Dr. Martin Taylor, who convinced me to reach into my past and take on the role of chair of the board of CARBC.

Irving Rootman, Ph.D.  
Chair, Advisory Board  
August 2006



## Message from the Director

This has been another exciting and eventful year at the Centre for Addictions Research of BC (CARBC). There have been many milestones to record, notable among these being the arrival of some great new faculty members as well as talented and enthusiastic young researchers. I am extremely lucky to have Dr. Scott Macdonald as an assistant director, bringing with him a wealth of research experience and wisdom as well as the key discipline of epidemiology. We have also been extremely fortunate to gain the membership of Dr. John Anderson, and agreement to join CARBC from Dr. Benedikt Fischer, each of whom brings with them expertise in different but vital areas.

In late 2005, the Board of Governors of the University of Victoria (UVic) approved CARBC's five-year strategic plan (from January 1, 2006 to December 31, 2010), formally signifying the arrival of CARBC as a UVic research centre. The document itself represented many months of work with our collaborators and, in particular, our fantastic advisory board.

Early in the life of a new research centre, it is also critical to access new research funds. As shown in this report, we have had significant success in competing for both research-funding competitions and contracts. In particular, Dan Reist, director of the CARBC Communication and Resource Unit, has had outstanding success with building capacity in the area of knowledge exchange. The research office has also had good success applying to the Canadian Institutes of Health Research, and our growing complement of internationally-recognized research faculty has been critical in that success. Our collaboration with the BC Mental Health and Addictions Research Network has also enabled us to offer a provincial research seminar series, as well as to provide seed and development grants for new research projects related to harm reduction and substance use.

Success in attracting new staff and new funding would all be in vain without the space for the new work to occur. Therefore, the support of our host institution, the University of Victoria, in agreeing to provide substantially larger office space both for the Victoria and Vancouver CARBC sites, is most gratefully acknowledged. In particular, we owe a debt of gratitude to Dr. Martin Taylor, Vice President, Research Services, for his personal support on this key issue.

I would like to record my gratitude to our great administrative and support staff for their patience and hard, high-quality work this past year. Nancy Duncan came to us for a 12-month period on secondment from Athletics and Recreation and did a first-class job under most difficult circumstances.

Finally, I hope that our hard work and capacity-building are beginning to show positive and visible results in the wider BC research, health care, and policy communities. We have embarked upon some significant research undertakings in the areas of primary health care, safe drug consumption sites, tobacco prevention, alcohol and other drug surveillance systems, and drug use in the workplace. We have also begun to publish statistical bulletins and technical reports on patterns of substance use and policy responses in BC and Canada. There is an enormous amount of work to be done, but I am confident that with the team we have assembled, and with the wonderful goodwill we have enjoyed so far, CARBC will make positive contributions to BC's overall response to reducing the harms from substance use and addiction.

Tim Stockwell, Ph.D.  
Director, CARBC



## Our People (April 2005 to March 2006)

### **Research and Administration Office (Victoria)**

Dr. Tim Stockwell—Director, CARBC

Dr. Scott Macdonald—Assistant Director, Research and Director, Epidemiology and Monitoring Unit, as of July 1, 2005

Dr. John Anderson—Senior Research Fellow, as of January 1, 2006

Ms. Jodi Sturge—Research Associate to Dr. Tim Stockwell, as of September 1, 2005

Ms. Connie Carter—Administrator, to August 31, 2005

Ms. Nancy Duncan—Administrator, as of September 1, 2005

Ms. Angelle Brown—Assistant to Dr. Tim Stockwell

Ms. Ulrika Drevniok—Research Assistant, June to November 2005

Ms. Clare Killikelly—Research Assistant, June to August 2005

Ms. Jiali Leng—Research Assistant, October to November 2005

### **Communication and Resource Unit (Vancouver)**

Mr. Dan Reist—Director, Communication and Resource Unit

Ms. Evelyn Souza—Information Officer

Ms. Nicole Pankratz—Publications Officer, as of November 1, 2005

Mr. Ian Kirkpatrick—Stakeholder Relations Officer, as of December 19, 2005

Ms. Sara Perry—Research Assistant (co-op student), May to August 2005 and September to December 2005. Appointed Research Coordinator, as of January 9, 2006

Ms. Cathy Spence—Assistant to Mr. Dan Reist

Mr. Yehalem Metiku—Research Assistant (co-op student), January to April 2006

### **Site Directors**

Dr. Raymond Corrado—Simon Fraser University, Criminology

Dr. Joy Johnson—University of British Columbia, Nursing

Dr. Cindy Hardy (from September 2005) and Dr Don Voaklander (until September 2005)—University of Northern British Columbia, Psychology

Dr. Reid Webster (from September 2005) and Dr Jim Cullen (until September 2005)—Thompson Rivers University, Psychology / Centre for Excellence in Addictions Research



### Advisory Board 2005–06

**Dr. Irving Rootman**

Senior Investigator, Michael Smith Foundation, University of Victoria, Chair of the Advisory Board

**Dr. Elliot Goldner**

Professor, Faculty of Health Sciences, Simon Fraser University

**Mr. Pat Griffin**

Executive Director, Victoria Youth Empowerment Society

**Ms. Jocelyn Harder**

Regional Addictions Advocacy Society

**Ms. Leah Hollins**

Chair, BC Addiction Foundation

**Mr. Edgar F. Kaiser Jr.**

Chair & CEO, Kaiser Foundation

**Dr. Perry Kendall**

Provincial Health Officer, Ministry of Health Services

**Dr. G. Alan Marlatt**

Director, Addictive Behaviours Research Centre, University of Washington

**Ms. Jody Paterson**

Executive Director, PEERS

**Dr. Anthony Phillips**

Director, Institute of Mental Health, University of British Columbia

**Dr. Mario Pinto**

Vice President Research, Simon Fraser University

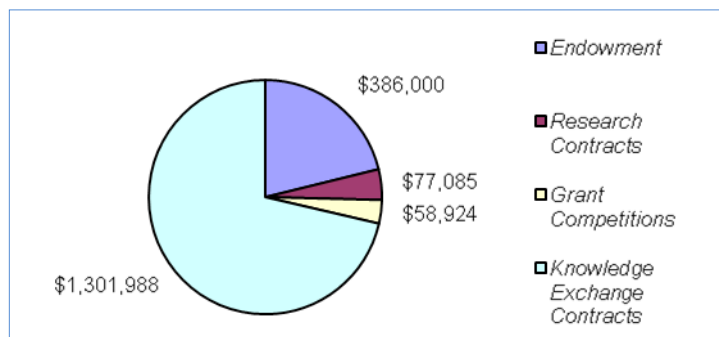
**Dr. Martin Taylor**

Vice President Research, University of Victoria

**Dr. Richard Vedan**

Director, First Nations House of Learning, University of British Columbia

### CARBC Revenue Summary 2005–06\*



\*unaudited



## CARBC Strategic Plan 2006–10

Our first strategic plan was approved by the University of Victoria Senate on November 4, 2005, and by the University's Board of Governors on November 28, 2005, to accord research centre status to the Centre for Addictions Research of BC for a five-year term starting on January 1, 2006. The plan outlines four key result areas, which we will be using in this annual report to start reporting our progress using available performance indicators. Future annual reports will provide fuller reporting of these indicators as we develop systems for tracking relevant activities.

### Our Mission

The mission of the Centre for Addictions Research of BC is:

*To create an internationally recognized centre, distributed across BC, that is dedicated to research and knowledge exchange on substance use, harm reduction, and addiction.*

### Our Values

The values emphasized in the 2006–10 CARBC Strategic Plan are:

- Collaborative relationships
- Independent research
- Ethics, social equity, and justice
- Reducing risk and increasing protection
- Harm reduction
- Informed public debate

*CARBC's strategic plan involves a great deal of growth and expansion over the next four years. In the works are proposals for several new operational units involving evidence-based policy and program evaluation, and specialist research.*

*In addition, CARBC plans to continue conducting addictions research, building relationships with key stakeholders, and creating substance-related resource material to advance knowledge exchange in BC.*



## Performance in Key Result Areas

### Key Result Area 1

#### Highlights

At this early stage of our centre, building internal capacity for both research and knowledge exchange has been the top priority. We are extremely fortunate to have had Drs. Scott Macdonald (School of Health Information Sciences), Benedikt Fischer (Research Associate from January 2006; Associate Professor with the Department of Sociology from July 2006), and John Anderson (Education and Medicine) join CARBC during the 2005-06 year. We have had some excellent young researchers and information scientists join the centre, bringing with them much enthusiasm, talent, and energy. We have had some early successes in winning research grants and contracts from a variety of sources and competitions, as listed below. The successful bid for a prestigious Canadian Institutes of Health Research new emerging team grant, announced early in 2006 for a program of research on the theme of “cross substance studies,” has also been a very positive early achievement.

Externally, our efforts to promote and support research in the substance use and addictions area have largely occurred as a result of our partnership with the BC Mental Health and Addictions Research Network. We have made agreements to share the cost of funding of seed and development grants in the addictions area, a doctoral research award, and a research seminar series. A major collaboration has also occurred on the development of an epidemiological monitoring platform for alcohol and drug-related problems across the province.

#### Successful applications to research–funding competitions

**Cannabis control in Canada: Developing a policy evaluation framework.** Fischer, B. (PI), Rehm, J., Stockwell, T. CIHR Research in Addictions: Innovative Approaches in Health Research—Policy Research Grant Competition, \$64,800 per year from April 1, 2006 to March 31, 2008.

**Cross-substance patterns of use, consequences and policy responses.** Stockwell, T. (PI), Barnes, G., Cherpitel, C., Fischer, B., Goldner, E., Johnson, J., MacDonald, S., Reist, D., Somers, J. (Co-applicants). CIHR Research in Addictions: Innovative Approaches in Health Research—New Emerging Team Grant Program, \$287,000 per year from January 1, 2006 to March 31, 2011.

**Mental health and addiction services and policy investigative team.** Goldner, E. (PI), Stockwell, T., Anis, A., Cutcliffe, J., Honer, W., Jones, W., MacLean, D., Marsh, D., Smye, V., Somers, J., Waddell, C., Waraich, P. (Co-investigators). Michael Smith Foundation Health Research Infrastructure Fund Investigative Teams Program, \$150,000 per year over 3 years beginning 2005.

**Methamphetamine use: Health, harms and the media.** Boyd, S. (PI). BC Mental Health and Addictions Research Network Seed Grant, \$7,160.

#### Commissioned and Investigator-initiated Research Contracts Won

**Antisocial behavior and the automobile: Automobile-linked crime in Canada. The Automobile of the 21<sup>st</sup> Century.** Smart, R., Linden, R., Mann, R., Asbridge, M., Backhouse, C., Boase, P., Brantingham, P., Butters, J., Fischer, B., Macdonald, S., Rehm, J., Solomon, R., Vingilis, E., Wiesenthal, D. Networks of Centres of Excellence, \$435,000 from June 1, 2005 to May 31, 2007.

**Applying modern item response theory to measures of problem and pathological gambling.** Pelton, T. (PI). Level II Research Award Agreement with Ontario Problem Gambling Research Centre, \$34,200 from September 1, 2005 to August 31, 2006.

**Estimating alcohol, tobacco and other drugs—Related mortality and economic costs in BC and Canada.** Stockwell, T. (PI). BC Ministry of Health Services, \$9,500.

**Interventions to reduce harm associated with adolescent substance use: An international review.** Stockwell, T., Toumbourou, J. World Health Organization, \$5,000 USD.

*“To build research infrastructure and capacity across BC for the conduct of research that will increase understanding and support more effective responses to substance use.”*

**Proposal to develop methods and costs for the pilot implementation of the national alcohol and other drug monitoring system in BC and Ontario.** Stockwell, T. (PI), Macdonald, S., Sturge, J., Fischer, B., Rehm, J., Buxton, J., Corrado, R., Cohen, I., Duff C., Marsh, D., Kerr, T., Nicholson, D., Michelow, W., Murphy, A., Saewyc, E., and the McCreary Centre Society. Health Canada, \$9,999.

**Review of the evidence on issues related to tobacco cessation and mental health and addictions.** Johnson, J., Macdonald, S., Reist, D. Provincial Health Services Authority, \$37,086 from January 1, 2006—March 31, 2006.

**Revision of the *International guide for monitoring alcohol consumption and related harm*.** Stockwell, T. World Health Organization, \$14,900 USD from January to October 2006.

**Safer crack use in an urban crack-using population.** Johnson, J. (PI), Boyd, S., Buxton, J., Loudfoot, J. (Co-investigators). Health Canada, Drug Strategy Community Initiatives Fund, \$200,790 (funding partnership, \$10,800 contributed by CARBC), March 2005.

**Structuring alcohol taxes (and prices) in a discerning and purposeful manner—Discussion Paper.** Stockwell, T. Health Canada, \$9,999 from September to November 2005.

*Table 1: Performance Indicators for Key Result Area 1*

	Objective	Performance indicators for 2005/6
1.1	Achieve increased funding for addictions research in BC.	<ul style="list-style-type: none"> <li>Funding received in 2006/7 from applications involving CARBC staff and site directors: a) \$352,000 from national research competitions, b) \$157,000 from BC research competitions, and c) \$378,000 received from contract research</li> </ul>
1.2	Increase funding applications for long-term research programs addressing research areas of high priority in BC.	<ul style="list-style-type: none"> <li>Research funding competitions: 10 (5 successful)</li> <li>Contracts/commissions: 13 (11 successful)</li> </ul>
1.3	Achieve successful collaborations with researchers and community partners.	<ul style="list-style-type: none"> <li>9 new projects with collaborators external to CARBC</li> <li>1 new researcher with relevant expertise introduced to addictions research</li> </ul>
1.4	Attract and retain high quality researchers from a broad range of disciplines.	<ul style="list-style-type: none"> <li>7 UVic Faculty and CARBC site directors with Ph.D.'s</li> <li>0 post-doctoral fellows at CARBC</li> </ul>
1.5	Attract high quality students from a broad range of disciplines.	<ul style="list-style-type: none"> <li>2 undergraduate students under CARBC supervision working on addictions-related topics</li> </ul>
1.6	Provide training opportunities and programs for the development of additional research skills among CARBC staff, students, and affiliates.	<ul style="list-style-type: none"> <li>1 epidemiology course attended by CARBC researcher</li> <li>Contributions to 4 graduate research training programs within UVic</li> </ul>
1.7	To provide mentorship to new and existing researchers across a range of community settings.	<ul style="list-style-type: none"> <li>3 new drug and alcohol researchers working on CARBC projects under supervision.</li> </ul>
1.8	Improve access to data sets and platforms for addiction researchers.	<ul style="list-style-type: none"> <li>BC data from the 2004 Canadian Addiction Survey acquired and shared with other BC researchers</li> <li>Early development of a BC-wide alcohol and other drug epidemiological monitoring platform</li> </ul>
1.9	Support provincial, national, and international research capacity through editorial and peer review activities.	<ul style="list-style-type: none"> <li>Peer review of articles submitted to journals and grant proposals</li> <li>CARBC faculty hold editorial positions with <i>Addiction</i> and <i>Drugs: Education, Prevention and Policy</i></li> </ul>



## Key Result Area 2

### Highlights

Research projects underway or completed during the 2005-06 year have covered a wide range of substance use and addictions-related issues including:

- reviews of the evidence base for effective prevention
- brief interventions in primary health care for substance use and mental health disorders, alcohol use, and injury
- safe consumption sites
- drug use in the workplace
- health benefits of moderate drinking
- patterns of drinking in British Columbia
- assessment of problem gambling
- risks of drug combinations for impaired driving

This range of research topics is possible due to the diverse interests and expertise of our growing cadre of faculty members and research fellows. One theme that unites us all across each of the CARBC units is growing attention to the importance of considering all types of major psychoactive substances on the same page, with attention to combined use patterns, interactions, and unintended consequences of interventions targeting one substance on harms from others. The year saw CARBC's first statistical bulletin concerning patterns of risky alcohol use in BC and Canada as a whole, based on an analysis of the 2004 Canadian Addiction Survey. A number of international projects were conducted, some commissioned by the World Health Organization and others reflecting ongoing international collaborations with researchers in the USA and Australia, in particular.

### Completed Projects

**Does moderate drinking prevent heart disease? A meta-analysis and re-estimation of alcohol caused mortality in Australia.** Stockwell, T., Chikritzhs, T. (NDR), Fillmore, K. (UC San Francisco). This project, funded by the Alcohol Education and Rehabilitation Foundation (Australia), includes the National Drug Research Institute in Perth, the University of California, and UVic. The project has resulted in several joint papers published and in submission, as well as conference papers, extensive media coverage, and public debate of the issues raised.

**Estimating alcohol and other drug related mortality for BC and Canada.** The BC Ministry of Health funded new analyses to support new estimates of these for a recent year in collaboration with the Centre for Addiction and Mental Health, Toronto. A paper on this has been submitted for publication and the revised estimates have been used to inform the BC drug-monitoring project (see below).

**Interventions to reduce harm associated with adolescent substance use: An international review.** Tim Stockwell was invited by the editor of *The Lancet* to prepare this review. Collaborators were Drs. John Toumbourou (University of Melbourne), Clayton Neighbours (University of Washington), Alan Marlatt (University of Washington), Juergen Rehm (University of Toronto), and Jodi Sturge (CARBC). It has been submitted for publication and is pending peer review.

**A substance use prevention strategy for BC.** CARBC was commissioned to prepare this document by the BC Ministry of Health. It awaits final approval and publication.

**Core programs evidence review paper on the prevention of harms associated with substance abuse.** Prepared by Dr. John Anderson for the BC Ministry of Health. This is a prevention framework document that provides evidence-based priorities on how to address and prevent the harms from substance use.

**Proposal to develop methods and costs for the pilot implementation of the national alcohol and**

*“To conduct high-quality research that increases understanding of substance use and addiction, and informs effective responses.”*

**other drug monitoring system in BC and Ontario.** Stockwell, T. (PI), Macdonald, S., Sturge, J., Fischer, B., Rehm, J., Buxton, J., Corrado, R., Cohen, I., Duff C., Marsh, D., Kerr, T., Nicholson, D., Michelow, W., Murphy, A., Saewyc, E., and the McCreary Centre Society. With funding from Health Canada and the encouragement of Dr. Perry Kendall, Provincial Health Officer for BC, this group developed a comprehensive proposal to pilot a national alcohol and other drug monitoring system in BC and Ontario. Subsequently, the proposal was approved for federal and provincial funding and is a major continuing project for CARBC and our partners.

**Review of the evidence on issues related to tobacco cessation and mental health and addictions.** Johnson, J., Macdonald, S., Reist, D. Prepared for the Provincial Health Services Authority.

**Review of the psycho-social aspects of prevention.** Stockwell, T. Prepared for the World Health Organization. A background paper for WHO, reviewing the theoretical basis for prevention of substance abuse among children and adolescents. Dr. Stockwell edited a final version, which was integrated with another report on the neuro-scientific aspects of prevention prepared by the Research Triangle Institute and University of Pittsburgh.

**Structuring alcohol taxes and prices in a discerning and purposeful manner.** Stockwell, T., Leng, J., Sturge, J. Prepared for Health Canada. This discussion paper identifies options for reforming alcohol taxation in Canada to achieve public health and safety outcomes, as well as suitable mechanisms, processes, and structures that will be used by the National Strategy Working Group in the development of a National Alcohol Strategy.

**Understanding approaches to address alcohol and drug problems in the Canadian workforce.** Macdonald, S. (PI), Csiernik, R., Durand, P., Wild, C. Funded by the Social Sciences and Humanities Research Council of Canada.

### Ongoing Projects

**Antisocial behavior and the automobile: Automobile-linked crime in Canada. The Automobile of the 21<sup>st</sup> Century.** Smart, R., Linden, R., Mann, R., Asbridge, M., Backhouse, C., Boase, P., Brantingham, P., Butters, J., Fischer, B., Macdonald, S., Rehm, J., Solomon, R., Vingilis, E., Wiesenthal, D. June 1, 2005 to May 31 2007.

**Applying modern item response theory to measures of problem and pathological gambling.** Pelton, T. (PI). Ontario Problem Gambling Research Centre. To conduct research on the reliability, validity, and utility of the Canadian Problem Gambling Index (CPGI), South Oaks Gambling Screen (SOGS) and the pathological gambling criteria from the Diagnostic and Statistical Manual of Mental Disorders—Fourth Edition (DSM-IV). By analyzing existing data sets containing response data from one or more of the CPGI, SOGS and DSM-IV instruments with IRT models, it is hoped that a useful measurement scale will be defined capable of identifying a predisposition for problem gambling. September 1, 2005 to December 31, 2006.

**Development of chronic and violent juvenile offenders.** Corrado, R., Lussier, P. Social Science and Humanities Research Grant. An examination of risk factors for serious and violent juvenile offenders.

**Dissemination of behavioural interventions in primary care: Depression and hazardous drinking.** Anderson, J., Goldner, E. (PIs). A research study, funded by the MSFHR, focusing on providing family physicians with brief behavioural interventions for depression and hazardous alcohol use that are feasible in primary care.

**Downtown Eastside history project 2004/06.** Since September 2004, Dr. Susan Boyd has been meeting regularly with Donald MacPherson, City of Vancouver Drug Policy Co-ordinator, and Bud Osborn, poet and drug activist, Vancouver, BC. They are working on a book about the emergence of the harm reduction movement in the Downtown Eastside as a social justice movement from 1994-2004.

**Drug films, justice, and society study.** Boyd, S. (PI), SSHRC. Examination and analysis of drug-related themes (depictions of drug users, drugs, environments, drug law, criminal justice, drug treatment, etc.) and underlying assumptions imbedded in them, in British, Canadian, and US films.

*“Our work on alcohol and other drug monitoring is central to the delivery of our new Strategic Plan”*

**Tim Stockwell**  
Centre Director

**Emergency room collaborative alcohol analysis project (ERCAAP). Stockwell, T., Macdonald, S.** Both collaborators in 2003 and continuing consultants on the grant “Cross-National Analysis of Alcohol and Injury.”

**Evaluation of *Engaging problematic substance users—Taking health to the streets: Nurses teaching nurses*. Reist, D., Metiku, Y.** An evaluation of this national program to develop tools that will assist in the transfer of knowledge gained by street nurses in Vancouver’s Downtown Eastside to nurses in both community and training settings across Canada.

**Factors related to traffic collision, violence, and injury risk among cannabis and cocaine clients. Macdonald, S.** (PI), Mann, R., Chipman, M., Erickson, P., Hathaway, A. Supported by the Canadian Institutes of Health Research.

**Mental health and addiction services and policy investigative team.** Goldner, E. (PI), **Stockwell, T.**, Anis, A., Cutcliffe, J., Honer, W., Jones, W., MacLean, D., Marsh, D., Smye, V., Somers, J., Waddell, C., Waraich, P. (Co-investigators). Supported by Michael Smith Foundation Health Research Infrastructure Fund Investigative Teams Program.

**Methamphetamine use: Health, harms, and the media. Boyd, S.** (PI). BC Mental Health and Addictions Research Network Seed Grant. The project began in January 2006.

**Perinatal substance use: Advancing compassionate trans-disciplinary practice. Boyd, S.,** Marcellus, L. (Eds.). (In process). Halifax: Fernwood. This project includes original research related to policy and practice by both editors, in addition to the coordination and editing of the contributors’ chapters. The book proposal was approved by Fernwood Press, and the manuscript will be published in the spring of 2007. The book highlights Canadian practitioners’ and researchers’ work (and draws from international studies).

**The BC pilot of a national drug surveillance system for Canada.** In collaboration with CAMH & University of Toronto, Vancouver Coastal Health Authority, the BC Centre for Excellence in HIV/AIDS, the BC Centre for Disease Control, the McCreary Centre Society, and the Centre for Social Responsibility. Funding partners include the BC Ministry of Health, PHSA, Health Canada, Vancouver Island Health Authority, Vancouver Coastal Health Authority, and the BC Mental Health and Addiction Research Network. The objective is to apply indicators of hazardous patterns of substance use and related harms in Canadian populations to inform the implementation of Canada’s drug strategy by identifying and analyzing emerging trends in substance use. Existing areas of strength in Canada in drug monitoring, such as CCENDU, will be built on. International best practices will also be drawn on. CARBC and CAMH are working with CCSA to maximize consistency between existing and planned survey questions about drug use across general population surveys, school surveys, and surveys of high-risk populations.

**Revision of the *International guide for monitoring alcohol consumption and related harm*. Stockwell, T.,** Chikritzhs, T., Jernigan, D., Kerr, W., **Macdonald, S.** Supported by the World Health Organization. A substantial revision of this guide is underway, including a new section on data reporting systems to serve as a guide for countries and regions interested in developing programs of regular surveillance and reporting.

**Safer crack use in an urban crack-using population. Johnson, J.** (PI), **Boyd, S.,** Buxton, J., Loudfoot, J. (Co-investigators). Supported by Health Canada, Drug Strategy Community Initiatives Fund. This is a collaborative project between CARBC and the Safer Crack Use Coalition of Vancouver. The study will provide information about the feasibility and utilization of a specific harm reduction initiative (crack kits) among crack users in Vancouver, 2005-08.

**YCJA and the processing of young offenders in youth custody centres in British Columbia: An assessment of the impact of treatment programs on multi-problem youth. Corrado, R.** Supported by Social Science and Humanities Research Grant. An analysis of treatment and custody in regard to multi-problem violent youth.

*“Collaboration with overseas research centres and international agencies such as WHO is a major priority for CARBC”*

**Tim Stockwell**  
Centre Director

**Table 2: Performance Indicators for Key Result Area 2**

	<b>Objective</b>	<b>Performance indicators for 2005/6</b>
2.1	Conduct research on the patterns, distribution, determinants, and consequences of substance use.	<ul style="list-style-type: none"> <li>7 projects initiated, completed, or underway</li> </ul>
2.2	Conduct research that is valued by stakeholders as being of high quality, timely, and relevant to public policy and practice.	<ul style="list-style-type: none"> <li>CARBC has prepared several policy documents under commission and has done background research to contribute to two major Senate reviews (alcohol labeling; mental health and addictions)</li> </ul>
2.3	Identify key strategic research opportunities that will inform policy and practice.	<ul style="list-style-type: none"> <li>See projects listed</li> </ul>
2.4	Conduct research on: <ul style="list-style-type: none"> <li>Province-wide monitoring of alcohol, tobacco, gambling, and other drug use patterns and related harms</li> <li>The impact of educational, legislative, and regulatory strategies to minimize alcohol and other drug-related harms</li> <li>Development and evaluation of more effective community prevention programs</li> <li>Development and evaluation of more effective treatment systems and programs</li> <li>Investigation of the influence of structural determinants and the social contexts of drug use on the implementation of strategies designed to reduce and prevent harmful drug use</li> <li>Research and evaluation of effectiveness of knowledge translation and exchange activities and strategies.</li> </ul>	<ul style="list-style-type: none"> <li>5 relevant projects</li> <li>9 relevant projects</li> <li>2 projects completed</li> <li>1 project underway</li> <li>8 projects initiated or completed</li> <li>1 project underway</li> </ul>
2.5	Develop and maintain significant collaborative projects with other researchers and research centres in British Columbia.	<ul style="list-style-type: none"> <li>7 projects</li> </ul>
2.6	Develop and maintain research projects that engage researchers from several relevant disciplines.	<ul style="list-style-type: none"> <li>15 projects involving multi-disciplinary participation with individuals and other centres</li> </ul>
2.7	Develop and maintain significant collaborative projects with other researchers and research centres in North America.	<ul style="list-style-type: none"> <li>11 collaborative projects with other North American researchers and research agencies each year</li> </ul>
2.8	Develop collaborative projects with international organizations.	<ul style="list-style-type: none"> <li>3 collaborations with WHO.</li> </ul>



## Key Result Area 3

### Highlights

CARBC continued to develop major capacity in the area of knowledge exchange and dissemination of research findings, primarily through the CARBC Communication and Resource Unit under Dan Reist's direction. We have been publishing our own research, both in the form of a new statistical bulletin series and CARBC technical reports, as well as contributing in more traditional ways: articles in refereed journals, commissioned reports, books, and chapters in books.

CARBC also continued to provide a provincial resource centre for the Health Promotion Program of the BC Ministry of Health. As part of this contract, and with funding support from Health Canada, the Centre recently released a series of 14 tip sheets for parents on preventing and reducing harm from substance use. Major projects in progress include:

- developing health education materials for Grades 6—12 for the Ministry of Education
- promoting low-risk drinking guidelines, and developing tools for community action to prevent and reduce harm
- providing evidence advice related to provincial and regional strategic frameworks for tobacco control

Midway through the year, CARBC entered into an additional partnership with the BC Ministry of Health to support tobacco control initiatives in British Columbia, and to direct activities in key areas of tobacco control knowledge exchange and evaluation. The contract is for a five-year period ending in September 2010, with total money awarded over \$2.5 million. In consultation with the Ministry of Health, CARBC has developed an evolving work plan to direct activities in the following key areas: information scanning, evidence-based research and evaluation, knowledge product development, consultation, promotions and marketing, help desk, Web-based resources and warehousing, and distribution services. The resource centre functions have been incorporated into the Substance Information Link resource centre that CARBC operates for the Ministry of Health's Health Promotion Program. The Web site ([www.silink.ca](http://www.silink.ca)) now has added capacity to distribute products in both print and electronic form. A full-time knowledge broker operates a help desk to assist in information access. CARBC developed several evidence papers to inform the development of tobacco-related policy, and made numerous presentations based on this research.

Our first statistical bulletin, entitled *Patterns of Risky Alcohol Use in British Columbia—Results of the 2004 Canadian Addictions Survey*, was released. Data from the 2004 Canadian Addictions Survey were used to address the question: To what extent does alcohol use in BC and Canada as a whole comply with guidelines for low-risk drinking? CARBC received extensive coverage in the media with over 51 'hits,' mostly in Canadian outlets. Two technical reports were also published, one concerning the evidence relating to the impact of alcohol warning labels, and the other examining the potential for using price and taxation strategies to reduce alcohol-related harm. Other kinds of publications and dissemination activities are listed below.

*“To disseminate research findings that increase understanding of substance use and addiction, to increase awareness of related harms, and to identify effective responses.”*

Public Lectures / Seminars / Other Events

**National thematic workshop on language related to addictions and substance use**, January 31, 2006. Co-hosted by **Dan Reist** and **Sara Perry** of CARBC, the Provincial Health Services Authority, BC Ministry of Health, and Health Canada. CARBC prepared and circulated a workbook prior to the meeting that helped participants begin to think about the complex issues related to language. A draft final report that provides a summary of the dialogue and recommendations for increased clarity in the *National Framework for Action to Reduce the Harms Associated with Alcohol and Other Drugs and Substances* has been prepared and circulated.

**The Victoria drug research group**, November 23, 2005. The first meeting of this group of UVic graduate students was facilitated and co-organized by Dr. **Susan Boyd**. The group is intended to bring together drug researchers to develop networks, and to educate one another about drug research, grants, and conferences. The second meeting was held on February 8, 2006.

**Cannabis, mental health, and addiction: What is evidence-based policy?**, February 23, 2006. Research colloquium presented by the BC Mental Health and Addictions Research Network in collaboration with CARBC at SFU Harbour Centre. **Tim Stockwell** was chair of the event, as co-leader of BC Mental Health and Addictions Research Network. This very successful colloquium included a keynote address, “Cannabis and psychosis: Is there a causal link?” by Professor David Fergusson from the Christchurch School of Medicine and Health Sciences at the University of Otago, New Zealand, as well as presentations by three other leading addictions researchers from BC and Ontario: Dr. **Anthony Phillips**—UBC, speaking on “An overview of the effects of cannabis on brain function”; Dr. **Joy Johnson**—UBC, speaking on “The link between marijuana use and nicotine addiction”; and Dr. **Benedikt Fischer**—CAMH, University of Toronto, speaking on “Cannabis use: Considerations for public health policy.”

**Cannabis and other illicit drug use: Revisiting the gateway theory**, February 24, 2006. Presentation by Professor David Fergusson, Christchurch School of Medicine and Health Sciences, University of Otago, New Zealand. Hosted by CARBC at the University of Victoria.

**Collaborative research with women in Vancouver’s Downtown Eastside**, January 19, 2006. Presentation by Dr. **Susan Boyd**, Associate Professor in Studies in Policy & Practice, University of Victoria and Senior Research Fellow, CARBC. This event was organized by the Vancouver Island Public Interest Research Group and co-sponsored by CARBC at the University of Victoria.

**Close to the street: Homelessness, addiction, and access to health care**, December 7, 2005. Presentation by Dr. **Bernadette Pauly**, Dalhousie University, Department of Bioethics. Hosted by CARBC at the University of Victoria.

**Reflections forward and back on the methamphetamine crisis**, September 15, 2005. Presentation by Dr. **Ethan Nadelmann**, Executive Director, Drug Policy Alliance, New York. Hosted by CARBC at the University of Victoria.

**Just say know: Getting real about teens and drugs**, September 15, 2005. Presentation by Dr. **Marsha Rosenbaum**, Director, Drug Policy Alliance, San Francisco. Hosted by CARBC at the University of Victoria.

**The inpatient substance-abuse detoxification in Northern British Columbia: Implications for practice and policy**, July 21, 2005. Presentation by Dr. **Russell Callaghan**, Centre for Addiction & Mental Health, Toronto. Hosted by the University of Northern BC and video-conferenced to 12 other sites in BC.

**The impact of Vancouver’s safer injection facility: Preliminary results from the scientific evaluation of the supervised injection project**, April 7, 2005. **Thomas Kerr**, BC Centre for Excellence in HIV/AIDS. Hosted by CARBC at the University of Victoria.

**Let’s talk about addictions: A community forum**, November 24, 2005. Organised by CARBC site director Dr. **Reid Webster**, and held at Thompson Rivers University, Kamloops. The theme of this forum was “A place to live.” It provided an arena in which to discuss the need to provide assistance (housing, support, etc.) to those struggling with addictions.

**Patterns of Risky Alcohol Use in British Columbia – Results of the 2004 Canadian Addictions Survey**

**Overview**

- Canadian surveys in BC and Canada have compared against published data from the national consumption survey, the 2004 Canadian Addictions Survey (CAS)
- The two reports are 94% in BC, 92% in Canada and other provinces presented valid comparisons with the last national survey in 1998
- The CAS gives unprecedented detailed information, and reported consumption accounted for only 12% of 2004, an increase from 10% in 1998 and 8% in 1994 in BC
- Respondents report a variety of drinking patterns
- It is likely that the prevalence of BACs substances reported in the CAS is lower than actual use, since many participants underreport actual consumption
- 70% of all reported consumption was in excess of moderate low risk drinking guidelines, and 15% was above the conservative international guidelines, and 10% was above the level of high risk drinking consumption reported by those aged 15 to 24 years was increased in excess of Canadian guidelines and 80% of those consumed by young females reported no drinking
- At least 30% of males and 18% of females reported regular drinking at or above levels for short term health long term harm
- 60% of British Columbians at least occasionally drink alone
- 40% of British Columbians at least occasionally drink alone
- There were a higher levels of at risk drinking across urban, rural and intermediate regions of BC
- The questionnaire that reported drinking methods are categorized into 14 types to describe consumption patterns, with an emphasis on increasing higher frequency rates and future changes in drinking patterns
- Detailed results are available at [www.carbc.ca/healthresearch/040504.pdf](http://www.carbc.ca/healthresearch/040504.pdf)

**Introduction**

In 2004 CARBC National Addictions Survey (CAS) was conducted in British Columbia and other provinces in Canada. The CAS is a national survey of alcohol and other drug use in Canada. The CAS is the first national survey of alcohol and other drug use in Canada since 1998. The CAS is the first national survey of alcohol and other drug use in Canada since 1998. The CAS is the first national survey of alcohol and other drug use in Canada since 1998.

**CARBC** is a research centre of the University of Victoria, in partnership with the University of Northern British Columbia, the University of Northern British Columbia, Thompson Rivers University, and British Columbia Institute of Technology.



## Publications

### Journals

- Baillie, L., Lovato, C., **Johnson, J.**, & Kalaw, C. (2005). Smoking decisions from a teen perspective. *American Journal of Health Behaviour*, 29, 99–106.
- Borges, G., Cherpitel, C., Orozco, R., Bond, J., Ye, Y., **Macdonald, S.**, Giesbrecht, N., **Stockwell, T.**, et al. (2006). Acute alcohol use and the risk of non-fatal injury in sixteen countries. *Addiction*, 101(7), 993–1002.
- Borges, G., Orozco, R., Cherpitel, C., Bond, J., Ye, Y., **Macdonald, S.**, et al. (2006). A multicenter study of acute alcohol use and non-fatal injuries in the emergency department: A research report from the WHO Collaborative Study on Alcohol and Injuries. *Bulletin of the World Health Organization*, 84(6), 453–460.
- Bottorff, J.L., Kalaw, C., **Johnson, J.L.**, Chambers, N., Stewart, M., Greaves, L., et al. (2005). Unravelling smoking ties: How tobacco use is embedded in couple interactions. *Research in Nursing and Health*, 28, 316–328.
- Bottorff, J.L., Kalaw, C., **Johnson, J.L.**, Greaves, L., & Stewart, M. (2005). Tobacco use in intimate spaces: Issues in the qualitative study of couple dynamics. *Qualitative Health Research*, 15(4), 564–577.
- Chikritzhs, T., & **Stockwell, T.** (In Press). The impact of later trading hours for hotels on levels of impaired driver road crashes and driver breath alcohol levels. *Addiction*.
- Csiernik, R., **Macdonald, S.**, Durand, P., Wild, T. C., & Rylett, M. (2006). Work site characteristics, workforce attributes and occupational assistance programming in Canada. *Employee Assistance Quarterly*, 97(2), 121–125.
- Fillmore, K.M., Kerr, W.C., **Stockwell, T.**, Chikritzhs, T., & Bostrom, A. (2006). Moderate alcohol use and reduced mortality risk: Systematic error in prospective studies. *Addiction Research and Theory*, 14(2), 101–132.
- Irwin, L., & **Johnson, J.L.** (2005). Interviewing young children: Explicating our practices and dilemmas. *Qualitative Health Research*, 15(6), 821–831.
- Irwin, L. G., **Johnson, J.L.**, & Bottorff, J. L. (2005). Mothers who smoke: Confessions and justifications. *Health Care for Women International*, 26, 577–590.
- Johnson, J.L.**, Ratner, P.A., Tucker, R., Bottorff, J.L., Prkachin, K., Zumbo, B., et al. (2005). Development of a multi-dimensional measure of tobacco dependence in adolescence. *Addictive Behaviors*, 30, 501–515.
- Loxley, W.M., Toumbourou, J.W., & **Stockwell, T.** (2005). A new integrated vision of how to prevent harmful drug use. *Medical Journal of Australia*, 182(2), 54–55.
- Macdonald, S.**, Anglin-Bodrug, K., Mann, R. E., & Chipman, M. (2005). Driving while impaired (DWI) by alcohol convictions among alcohol, cannabis and cocaine clients in treatment. *Traffic Injury Prevention*, 6(3), 207–211.
- Macdonald, S.**, Cherpitel, C., Borges, G., DeSouza, A., Giesbrecht, N., & **Stockwell, T.** (2005). The criteria for causation of alcohol in violent injuries based on emergency room data from six countries. *Addictive Behaviors*, 30(1), 103–113.
- Macdonald, S.**, Csiernik, R., Durand, P., Rylett, M., & Wild, T. C. (2006). The prevalence and factors related to Canadian workplace health programs. *Canadian Journal of Public Health*, 97(2), 121–125.
- Pankratz, N.** (2006). How much is too much and how often is too often? Alcohol consumption guidelines. *Visions: BC's Mental Health and Addictions Journal* 2(9):7–8.

CARBC is supported by its partnership with key organizations in the addictions field, including:

- BC Centre for Excellence in HIV/AIDS
- BC Centre for Excellence in Women's Health
- Mental Health Evaluation and Community Consultation Unit (UBC)
- BC Mental Health and Addictions Research Network
- BC Centre for Disease Control
- Provincial Health Services Authority
- Centre for Addictions and Mental Health (Ontario)

**Perry, S.** (2006). Alcohol and British Columbians. *Visions: BC's Mental Health and Addictions Journal* 2(9):6.

**Reist, D.** (2006). Words, values and Canadians: Toward a common language of diversity and respect. *Visions: BC's Mental Health and Addictions Journal* 2(9):14–15.

**Reist, D.** (2006). Treatment: What is it? Where do I get it? *Visions: BC's Mental Health and Addictions Journal* 2(9):32–33.

Shoveller, J. A., Elliott, D., & **Johnson, J.** (2005). (Ir)reconcilable differences? Local reactions to provincial neoliberal education reform. *Promotion & Education, Suppl* 3, 35–28.

**Stockwell, T.** (2005). Comments on Skog: The prevention paradox has always looked to me like a sleight of hand. *Addiction*, 101(2), 159.

#### Book Chapters

**Boyd, S.** (2006). Representations of women in the drug trade. In G. Balfour & E. Comack (Eds.), *Criminalizing women: Gender and (in)justice in neo-Liberal times* (pp. 131–151). Halifax: Fernwood.

**Macdonald, S.** (2005). Drug testing in the workplace: Issues, answers and the Canadian perspective. In R. Csiernik & P. Newman (Eds.), *Wellness, work and Employee Assistance Programs* (pp. 57–70). Toronto: Canadian Scholars Press.

#### CARBC Publications

**Stockwell, T.** (2005). *A review of research into the impacts of alcohol warning labels on attitudes and behaviour*. CARBC Technical Report. Victoria: Centre for Addictions Research of BC, University of Victoria.

**Stockwell, T., Leng, J., & Sturge, J.** (2005). *Alcohol pricing and public health in Canada: Issues and opportunities*. CARBC Technical Report. Victoria: Centre for Addictions Research of BC, University of Victoria.

**Stockwell, T., Sturge, J., & Macdonald, S.** (2005). *Patterns of risky alcohol use in British Columbia—Results of the 2004 Canadian Addiction Survey*. Bulletin 1. Victoria: Centre for Addictions Research of British Columbia, University of Victoria.

#### Commissioned Reports

Dooley, S., Welsh, A., Floyd, R., **Macdonald, S.**, & Fenning, T. (2005). *Aboriginal youth justice: Emerging strategies for programme development*. Surrey: Kwantlen University College. [Prepared for the Vancouver Police Department.]

**Johnson, J., Macdonald, S., Reist, D.**, & Bahadori, K. (2006). *Tobacco reductions in the context of mental health and addictions: A review of the evidence*. Vancouver: University of British Columbia. [Prepared for the Provincial Health Services Authority.]

**Perry, S., McMaster, H., & Reist, D.** (2005). *A briefing paper: Tobacco control strategy*. Vancouver: Centre for Addictions Research of BC. [Prepared for the BC Ministry of Health.]

**Perry, S., & Reist, D.** (2006). *Tobacco taxation policy: A literature review and recommendations*. Vancouver: Centre for Addictions Research of BC. [Prepared for the BC Ministry of Health.]

**Stockwell, T., Leng, J., & Sturge, J.** (2005). *Alcohol pricing and public health in Canada: Issues and opportunities*. Victoria: Centre for Addictions Research of BC. [Discussion paper prepared for the National Alcohol Strategy Working Group.]

**Stockwell, T., Fishbein, D., Toumbourou, J., Tarter, R., & Eldreth, D.** (2005). *Preventing psychoactive substance use and related harms among children and adolescents: A review of theory and global best practices to address psychosocial and neurobiological factors*. [Prepared for the World Health Organization.]



#### Other Publications

- Boyd, S.** (2006). *Systemic violence: The social dimensions of prohibition*. *Carnegie Newsletter*, March 1, 2006: 21.
- Macdonald, S.** (2006). *Risk and protective factors for alcohol and drug problems among youth*. [Prepared for the Centre for Youth and Society, University of Victoria.]
- Macdonald, S.** (2005). Alcohol-related crashes have declined. *The Link: Newsletter of the Centre for Addictions Research of BC* 1(11):1, 5.
- Reist, D.** "Media-fueled drug hysteria blurs focus." *Vancouver Courier*, December 12, 2005, opinion section, no. 3.

#### Editorial Contributions

Stockwell, T. Assistant Editor, *Addiction*.

Stockwell, T. Guest editor for *Visions: BC's Mental Health and Addictions Journal*, Issue #9, February 2006. Issue focused on alcohol-related problems.

#### Invited Presentations

- Boyd, S.** (2005). *Drug prohibition: A policy of mass destruction*. Beyond Drug Prohibition: A Public Health Approach, Keeping the Door Open: Dialogues on Drug Use, Vancouver, BC, October 18–19, 2005.
- Boyd, S., & Stoddard, M.** (2005). *Drug films, justice & society: Representations of drug dealers and users in film*. 57<sup>th</sup> Annual Meeting of the American Society of Criminology, Toronto, ON, November 15–19, 2005.
- Boyd, S.** (2005). *Justice literacy: What every student of justice needs to know (and speak intelligently about) before graduation*. 57<sup>th</sup> Annual Meeting of the American Society of Criminology, Toronto, ON, November 15–19, 2005.
- Boyd, S.** (2005). *Health & Justice for women who use illicit drugs: Building women-centred harm reduction in our community*. Community Forum, The Vancouver Area Network of Drug Users (VANDU) Women's Group, Gallery Gachet, Vancouver, BC, December 9, 2005.
- Boyd, S.** (2006). *Collaborative research with women in Vancouver's Downtown Eastside*. Research Lecture Series, Vancouver Island Public Interest Group (VIPIRG) and CAR-BC, Victoria, BC, January 19, 2006.
- Boyd, S.** (2006). *Systemic violence: The social dimensions of prohibition*. Public Forum, The War on Drugs: Its Deadly Consequences & Possible Alternatives, Carnegie Community Centre, Vancouver, BC, February 15, 2006.
- Dunne, D.** (2006). *Meth: The law, the drug, the effects*. Second annual symposium of the University of Victoria Faculty of Law Criminal Law Club, Victoria, BC, March 1, 2006.
- Macdonald, S.** (2005). *Why liquor law enforcement is important from a public health perspective*. Liquor Control Licensing Board Training Conference, Abbotsford, BC, Oct 18-19, 2005.
- Macdonald, S.** (2005). *Drug testing in the workplace: Research findings and issues*. Seminar series for the School of Health Information Science, University of Victoria, Victoria, BC, Nov 25, 2005.
- Perry, S., & Reist, D.** (2005). *Information management to support policy & practice: A dialogue on tobacco*. BC Ministry of Health's Dialogues on Tobacco, Vancouver, BC, October 18, 2005.
- Perry, S., & Reist, D.** (2006). *National symposium on Language*. National Thematic Workshop on Language Related to Addictions and Substance Use, Vancouver, BC, January 31, 2006.
- Perry, S.** (2006). *Enforcement evaluation framework*. Tobacco Enforcement Policy Workshop, Vancouver, BC, March 22, 2006.



- Rabinovitch, J.** (2005). *Health, education, and enforcement in partnership*. BC Association of Chiefs of Police, Vancouver, BC, September 22, 2005.
- Reist, D.** (2005). *Knowledge exchange in community-based research and approach by CARBC*. Community Based Research Forum, University of Victoria, Victoria, BC, April 23, 2005.
- Reist, D.** (2005). *Implementing best practice at a system level (with particular attention to motivational approaches)*. National Summer Institute on Addictions, Charlottetown, PEI, July 18–21, 2005.
- Reist, D.** (2005). *Making knowledge work*. Honouring Our Health Challenge, Aboriginal Health Conference, Vancouver, BC, October 17, 2005.
- Reist, D.** (2005). *Prevention: What works?* Drug Awareness Conference, Kamloops, BC, November 16–17, 2005.
- Reist, D.** (2005). *Towards a framework for knowledge exchange*. Centre for Social Responsibility, Abbotsford, BC, November 25, 2005.
- Reist, D.** (2006). *Harm reduction & outreach: What works?* Moving Forward 2006 Conference, Saskatoon, SK, January 30, 2006.
- Reist, D.** (2006). *Moving forward on social sourcing initiatives*. Youth Access to Tobacco, Ministry of Health Consultation, March 23, 2006.
- Stockwell, T.** (2005). *Reducing harm when young people drink: What works and what is acceptable?* 12<sup>th</sup> Annual David H. Archibald Lecture, Centre for Addiction & Mental Health, Toronto, ON, April 12, 2005.
- Stockwell, T.** (2005). *Roles and activities of CARBC*. City of Victoria Social Planning Advisory Committee, Victoria, BC, June 29, 2005.
- Stockwell, T.** (2005) *Recommendations for future directions in government investment in responses to substance use problems in Canada*. Standing Senate Committee on Social Affairs, Science and Technology, Inquiry into Mental Health and Addictions, Ottawa, ON, September 21, 2005.
- Stockwell, T.** (2005). *Use of ER data for identification and surveillance of alcohol-related injuries*. International Conference on Alcohol and Injury: New Knowledge from Emergency Room Studies, Berkeley, CA, October 3–6, 2005.
- Stockwell, T.** (2005). *The Center for Addictions Research of BC: A framework for research and knowledge exchange in British Columbia*. University of Washington, Seattle, WA, October 12, 2005.
- Stockwell, T.** (2005). *Alcohol and the continuum of regulation*. Beyond Drug Prohibition: A Public Health Approach, Keeping the Door Open: Dialogues on Drug Use, Vancouver, BC, October 18–19, 2005.
- Stockwell, T.** (2005). *Implementation—The continuum of regulation*. Beyond Drug Prohibition: A Public Health Approach. Keeping the Door Open: Dialogues on Drug Use, Vancouver, BC, October 18–19, 2005.
- Stockwell, T.** (2005). *Evidence-based public policy to reduce alcohol-related harm*. Canadian Society of Addiction Medicine 17<sup>th</sup> Annual Scientific Meeting, Vancouver, BC, October 30, 2005.
- Stockwell, T.** (2005). *Preventing harmful substance use: The evidence base for policy and practice*. Mental Health Research Showcase, Banff, AB, November 28–30, 2005.
- Stockwell, T.** (2005) *Alcohol pricing and public health in Canada: Issues and opportunities*. National Alcohol Strategy Working Group, Edmonton, AB, December 7, 2005.
- Stockwell, T.** (2005). *Alcohol supply, demand and harm reduction: What is the strongest cocktail?* Research in Addictions and Mental Health Policy & Services (RAMHPS) Seminar Series, presented by videoconference, December 14, 2005.

*“Efforts to build a better treatment system will be most effective when incorporated within a comprehensive community systems approach to services”*

Dan Reist  
**Implementing best practice at a system level**  
 Charlottetown, PEI

**Stockwell, T.** (2006). *The evidence base for alcohol policy*. Clinical Psychology Training Program, University of Victoria, Victoria, BC, March 2, 2006.

**Stockwell, T.** (2006). *Keynote Speaker*. Association of Substance Abuse Programs of BC, Richmond, BC, March 27–28, 2006.

[Simon Fraser University CARBC Site](#)

**Corrado, R.** (2005). *Risk and protective factors for violent youth: An empirical study and review of research*. Keynote address, 24<sup>th</sup> Annual Conference of the Association for the Treatment of Sexual Abusers, Salt Lake City, UT, November 2–5, 2005.

**Corrado, R.** (2005). *Barriers to accessing substance abuse treatment services in British Columbia: Service limitations or personal resistance?* 57<sup>th</sup> Annual Meeting of the American Society of Criminology, Toronto, ON, November 15–19, 2005.

**Corrado, R., & Marino, F.** (2005). *Childhood sexual victimization and lifetime drug use among urban Aboriginals*. 57<sup>th</sup> Annual Meeting of the American Society of Criminology, Toronto, Ontario, November 15–19, 2005.

[University of British Columbia CARBC Site](#)

Bottorff, J.L., Kalaw, C., **Johnson, J.L.**, Stewart, M., Greaves, L., & Carey, J. (2005). *Compelled to be smoke-free: Conflict and couple dynamics during tobacco reduction for pregnancy*. 4<sup>th</sup> National Conference on Tobacco or Health, Ottawa, ON, June 19–22, 2005.

**Johnson, J.L.** (2005). *From neurotransmitters to neighbourhoods: New frontiers in health behaviour change*. Public Lecture, Queen's University, Kingston, ON, November 2005.

**Johnson, J.L.** (2005). *Smoke free hospitals: Towards an evidence-informed compassionate approach*. Grand Rounds Kingston General Hospital, Kingston, ON, November 2005.

**Johnson, J.L.** (2006). *The link between cannabis use and nicotine addiction*. Panel presentation at Cannabis, Mental Health and Addiction: What is Evidence-Based Policy? BC Mental Health and Addictions Research Network, Vancouver, BC, February 2006.

Kalaw, C. Bottorff, J.L., Chambers, N., **Johnson, J.L.**, Stewart, M., Greaves, L., & Kelly, M. (2005). *The trouble with TRIPs (tobacco-related interaction patterns): Men, women and tobacco in intimate relationships*. 4<sup>th</sup> National Conference on Tobacco or Health, Ottawa, ON, June 19–22, 2005.

Schwartz, D., Stewart, M., **Johnson, J.L.**, Jategaonkar, N., & Greaves, L. (2005). *What constitutes vulnerability to tobacco use?* 4<sup>th</sup> National Conference on Tobacco or Health, Ottawa, ON, June 19–22, 2005.

[Thompson Rivers University CARBC Site](#)

**Webster, R.** (2005). *Dual diagnosis*. Addictions in Corrections Symposium, Kamloops, BC, September 16, 2005.

**University Sites:**

- Simon Fraser University
- University of British Columbia
- University of Northern British Columbia
- Thompson Rivers University

### Conference and Other Presentations

Chikritzhs, T., & Stockwell, T. (2005). The impact of later trading hours for hotels on levels of impaired driver road crashes and driver breath alcohol levels. 17th International Conference on the Reduction of Drug-Related Harm, Vancouver, BC, April 30–May 04, 2006.

Corrado, R. (2005). *Barriers to accessing substance abuse treatment services in British Columbia: Service limitations or personal resistance?* 57<sup>th</sup> Annual Meeting of the American Society of Criminology, Toronto, ON, November 15–19, 2005.

Corrado, R., & Marino, F. (2005). *Childhood sexual victimization and lifetime drug use among urban Aboriginals.* 57<sup>th</sup> Annual Meeting of the American Society of Criminology, Toronto, Ontario, November 15–19, 2005.

Drevniok, U., & Stockwell, T. (2005). *Health consequences of alcohol consumption reported in Canadian newspapers, 2000 to 2004.* 17th Annual Scientific Meeting of the Canadian Society of Addiction Medicine, Vancouver, BC, October 29, 2005.

Fillmore, K., Kerr, W., Stockwell, T., Chikritzhs, T., & Boston, A. (2005). *Alcohol and mortality risk: Systematic error in prospective studies.* Kettil Bruun Society Meeting, Riverside, CA, May 31, 2005.

Graham, K., Osgood, W., Well, S., & Stockwell, T. (2005). *To what extent is intoxicification associated with aggression in bars? A multilevel analysis.* Kettil Bruun Society Meeting, Riverside, CA, June 3, 2005.

Johnson, J.L. (2005). *Untangling the links between youths' cannabis and tobacco use.* BC Ministry of Health's Dialogues on Tobacco, Vancouver, BC, October 18, 2005.

Johnson, J.L. (2005). *Untangling the links between sex and gender.* Women's Health Research Network, presented by videoconference across BC, October 20, 2005.

Johnson, J.L. (2005). *Utilizing mixed-methods approaches in research.* Queen's University Business School, Kingston, ON, November, 2005.

Macdonald, S. (2005). *Monitoring and surveillance of alcohol and drug use problems in BC.* Canadian Centre for Substance Abuse National Conference, Markham, ON, November 13–16, 2005.

Macdonald, S., Chipman, M., Mann, R., Erickson, P., Hathaway, A., & MacIntyre, P. (2005). *Driving behaviour under the influence of cannabis and cocaine.* Canadian Centre for Substance Abuse National Conference, Markham, ON, November 13–16, 2005.

Macdonald, S. (2005). *Comparisons of cannabis and cocaine clients in treatment for substance abuse.* Canadian Centre of Substance Abuse National Conference, Markham, ON, November 13–16, 2005.

Stockwell, T., Chikritzhs, T., & Pascal, R. (2005). *The impact of the Northern Territory's Living with Alcohol Program, 1992-2002: Revisiting the evaluation.* Kettil Bruun Society Meeting, Riverside, CA, June 3, 2005.

Stockwell, T. (2005). *Use of ER data for identification and surveillance of alcohol-related injuries.* International Conference on Alcohol and Injury: New Knowledge from Emergency Room Studies, Berkeley, CA, October 03–06, 2005.

Stockwell, T., Reist, D., Macdonald, S., & Hood, J. *Towards a framework for addictions research and knowledge exchange in BC.* Canadian Centre of Substance Abuse National Conference, Markham, ON, November 13–16, 2005.

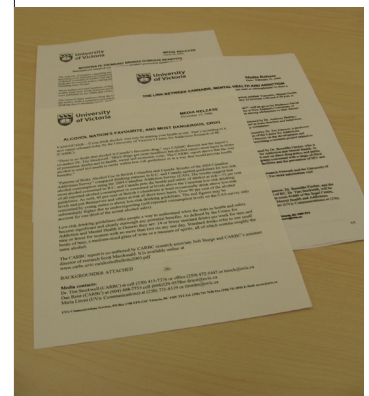
*“The impact of driving under the influence (DUI) of cannabis and cocaine on driving behaviour is poorly understood. We asked clients in treatment for cannabis and cocaine problems to describe in their own words how these drugs affected their driving. The most frequent response for DUI cocaine was a tendency toward more racing and reckless driving, where as people who DUI cannabis most frequently indicated they drove more cautiously. Both drugs could adversely impact driving but the mechanisms are quite different.”*

Scott Macdonald et al.  
**Driving behaviour under the influence of cannabis and cocaine**  
 Canadian Centre on Substance Abuse National Conference,  
 Markham, ON.

### Media Coverage

The University of Victoria's Communication Unit kindly analyzed a database concerning stories in Canadian print media that mentioned CARBC during the 2005-06 financial year. They also provided specific reports on print and electronic media stories (national and international) in response to specific media releases issued by CARBC during the same year. The table below is a compilation drawn from all these sources, as well as in-house tracking of CARBC media interviews.

<b>Story/Topic</b>	<b>Print</b>	<b>TV</b>	<b>Radio</b>	<b>On-line</b>	<b>Total</b>
<i>Canadian drinking patterns</i>	43	1	0	14	58
<i>About CARBC</i>	12	0	2	1	15
<i>Miscellaneous</i>	9	0	0	1	10
<i>Methamphetamine</i>	17	3	1	0	21
<i>Health benefits of alcohol</i>	79	12	6	12	109
<b>Totals</b>	<b>160</b>	<b>16</b>	<b>9</b>	<b>28</b>	<b>213</b>



**Table 3: Performance Indicators for Key Result Area 3**

	<b>Objective</b>	<b>Performance indicators for 2005/6</b>
3.1	Disseminate research findings to policy makers, practitioners, public health professionals, other researchers, community interest groups, and the general public.	<ul style="list-style-type: none"> <li>• 3 national policy committee memberships</li> <li>• 7 reviews of evidence for effectiveness for different types of intervention and policy</li> <li>• 28 new resources developed by CARBC and made available on-line and in print</li> </ul>
3.2	Publish research findings in articles in peer reviewed journals.	<ul style="list-style-type: none"> <li>• 15 articles published by CARBC researchers in peer reviewed journals</li> </ul>
3.3	Publish research findings in book chapters, books, research monographs and technical reports.	<ul style="list-style-type: none"> <li>• 2 book chapters, 1 bulletin, and 2 technical reports published by CARBC researchers</li> </ul>
3.4	Achieve a high academic impact for BC addictions-related research so that it is well-known, frequently requested, and often cited.	<ul style="list-style-type: none"> <li>• 1791 citations in peer reviewed journals in 2005 of research on substance use issues by CARBC researchers, and 142 by CARBC site directors</li> </ul>
3.5	Provide balanced factual information on drug-related harms and prevention approaches through a variety of knowledge exchange strategies, including media releases and the internet.	<ul style="list-style-type: none"> <li>• 160 articles in the print media, 28 on-line, and 25 interviews used by the electronic media in 2005/06.</li> <li>• 2 CARBC newsletters</li> <li>• 5 articles from CARBC in magazines, newsletters, websites, and unrefereed journals</li> <li>• 658 orders for information products were responded to by the CARBC resource centre</li> </ul>
3.6	Conduct seminars, lectures, and occasional conferences on the state of knowledge and its application to policy, practice, and the research agenda.	<ul style="list-style-type: none"> <li>• 9 public research seminars and 1 national symposium convened or co-convened by CARBC</li> <li>• 45 invitations to CARBC researchers were accepted to present at conferences and symposia organized for BC (25), national (13), or international audiences (7)</li> <li>• 17 papers accepted for presentation from CARBC researchers and students at BC (3), national (7), and international (7) conferences</li> </ul>
3.7	Contribute to teaching programs on substance use and addictions for undergraduate and graduate courses/ programs	<ul style="list-style-type: none"> <li>• 3 courses in which addictions issues were taught by CARBC members at UVic</li> <li>• 1 course in which addictions issues were taught by CARBC members at other campuses</li> </ul>
3.8	Cultivate communities of practice that disseminate knowledge among policy makers, practitioners, public health professionals, researchers, community interest groups, and the general public in order to increase awareness of drug-related harms and effective prevention strategies.	<ul style="list-style-type: none"> <li>• CARBC personnel are represented on the following networks active in BC which link researchers, policy makers, practitioners, and members of the wider community with the aim of disseminating knowledge on substance use and addiction: <ul style="list-style-type: none"> <li>- BC MH&amp;A research network</li> <li>- Keeping the Door Open</li> <li>- BC Drug Surveillance Group</li> <li>- CARBC Program Committee</li> </ul> </li> </ul>



[www.silink.ca](http://www.silink.ca)

*contains on-line balanced factual information on drug-related harms. Information is available in print-ready PDF format.*



## Key Result Area 4

### Highlights

An applied focus to the research and knowledge exchange activities of CARBC is fundamental. We wish our work to be useful to those charged with developing policy and implementing programs to prevent and treat problems from substance use, as well as to reduce associated harms. There are many influences, individuals, and agencies that determine whether a new policy or program is implemented—research and the evidence base is usually just one part of that process. By collaborating with community partners in designing, implementing, and disseminating research, we increase our chances that the findings will influence practice where this is warranted. This can also be achieved by contributing to policy review processes, whether through verbal or written submissions, and by membership of policy committees. Examples of these activities are listed below. In some rare cases, it is possible to identify policies or programs that have been introduced as a direct result of such dissemination processes. During the 2005-06 year, there was one possible example of this in the area of alcohol taxation reform.

CARBC was commissioned by the Canadian Centre on Substance Abuse to prepare and present a discussion paper on alcohol taxes and public health in Canada to the National Alcohol Strategy Working Group. This report was shared with the Federal Finance Department by CCSA, and was the subject of a meeting in February 2006. It was also provided to the Standing Senate Committee on Social Affairs, Science and Technology Inquiry into Mental Health, chaired by the Honourable Michael J.L. Kirby, both in the form of an invited oral presentation and an invited submission. The CARBC submissions on alcohol taxation were used as the basis for two significant recommendations in the final report (“Mental Health, Mental Illness and Addiction: Issues and Options for Canada, Interim Report”): (i) to raise prices by five cents per drink on alcoholic beverages with the strength of greater than 4% alcohol by volume, (ii) to reduce taxation on beer with the strength below 4%. The CARBC discussion paper also noted that alcohol excise taxes had not been raised in Canada for nearly 20 years, and recommended there be a shift from sales taxes to excise taxes as only the latter tax alcohol directly. Possibly by coincidence, the 2006 Federal budget increased alcohol excise taxes to compensate for a reduction in GST.

### Invited submissions to policy inquiries

**Stockwell, T.** *The relative cost-effectiveness of community-based and inpatient hospital care for people with substance use problems and dependence.* Prepared with the assistance of Jodi Sturge, Centre for Addictions Research of BC, University of Victoria. A brief submitted to the Standing Senate Committee on Social Affairs, Science and Technology, Inquiry into Mental Health and Addictions, October 2005.

**Stockwell, T., & Thomas, G.** *A ‘Nickel a drink’ tax to fund improved service provision for people suffering from alcohol and other drug problems.* A brief submitted to the Standing Senate Committee on Social Affairs, Science and Technology, Inquiry into Mental Health and Addictions, October 2005.

*“To contribute to the implementation of evidence-based policy and practice.”*



### Committee Memberships and Attendances

**Boyd, S.** Member of National Coordination and Advisory Committee for the National Research Agenda for Substance Use and Abuse, Health Canada. Two-year membership starting March 2006.

**Macdonald, S.** Grant reviewer for Strategic Grants for Research in Addictions, Canadian Institutes of Health Research, January 19–20, 2006.

**Macdonald, S.** Member, Interdisciplinary Committee for Graduate Students. Faculty of Graduate Studies, 2005–present.

**Macdonald, S.** Member of Ph.D. Review Committee for School of Health Information Science.

**Macdonald, S.** Member of Canadian Community Epidemiology Network on Drug Use.

**Macdonald, S.** Member of BC Workplace Mental Health and Addictions Scientific Committee.

**Reist, D.** Member of National Advisory Group on Workforce Development.

**Reist, D.** Member of Keeping the Door Open: Dialogues on Drug Use.

**Reist, D.** Member of the Vancouver Foundation Four Pillars Fund Advisory Committee.

**Reist, D.** Director, Kaiser Foundation.

**Stockwell, T.** Co-chair with Dr. Bill Honer (UBC) of BC Mental Health and Addictions Research Network, Network Planning and Advisory Committee.

**Stockwell, T.** Elected President of Kettil Bruun Society for Social and Epidemiological Research at the Alcohol Annual Symposium, Riverside, CA, & Chair of the Conference Coordinating Committee. Presidency to run from 2005 to 2007.

**Stockwell, T.** Member of National Surveillance Advisory Committee. Organized by the Office of Research and Surveillance, Drug Strategy and Controlled Substances Program, Health Canada. The purpose is to identify high priority information needs and key indicators in support of the National Research Agenda and the National Framework for Action to Reduce the Harms Associated with Alcohol, Other Drugs, and Substances.

**Stockwell, T.** Member of National Alcohol Policy Working Group. National policy committee formed jointly by Health Canada, CECA, and CCSA. The outcome from four meetings is a draft National Alcohol Strategy for Canada.

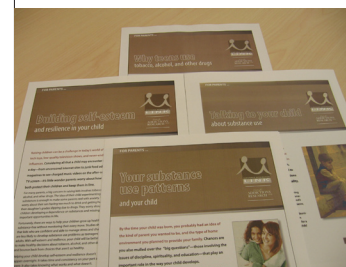
**Stockwell, T.** Member of panel of Social and Economic Impact of Gambling (SEIG). Expert panel will provide advice to an inter-provincial initiative to develop methodology for estimating the social and economic impact of gambling.

**Stockwell, T.** Member of Planning Executive Committee for the 17<sup>th</sup> International Conference on the Reduction of Drug Related Harm, organizing an alcohol policy stream. Conference held in Vancouver, BC, April 2006.

**Stockwell, T.** Member of Health Canada Workshop: Avoidable Cost of Substance Use and Abuse, Ottawa, ON, June 21–22, 2005. Workshop for the development of a guideline for estimating the avoidable cost of substance use and abuse. Organized by Health Canada, Drug Strategy and Controlled Substance Program, Office of Research and Surveillance, Health Canada.

**Table 4: Performance Indicators for Key Result Area 4**

	Objective	Performance indicator
4.1	Plan the evaluation of new public health and safety measures designed to minimize harms from substance use and gambling prior to their implementation.	<ul style="list-style-type: none"> <li>• CARBC has taken the lead role in piloting a surveillance system to contribute to the evaluation of Canada's Drug Strategy</li> <li>• CARBC is actively engaged in developing proposals to evaluate the impact of brief interventions for substance use problems in primary health care settings.</li> </ul>
4.2	Work in partnership with policy makers and practitioners in the planning, execution, and dissemination of some applied research projects.	<ul style="list-style-type: none"> <li>• See above</li> </ul>
4.3	Increase the probability of research findings from CARBC, its partners, and other related sources being applied to policy and practice development at national, provincial, and local community levels.	<ul style="list-style-type: none"> <li>• CARBC has contributed towards 2 significant proposals for national alcohol taxation reform</li> </ul>
4.4	Provide regular briefings and submissions to government and parliamentary inquiries, policy advisors, and relevant provincial and national committees on emerging issues in the prevention of drug-related harms.	<ul style="list-style-type: none"> <li>• 5 invitations received to make submissions to policy forums, select committees, or other such bodies</li> <li>• Membership of 5 BC and national policy committees concerned with substance use and addictions</li> </ul>
4.5	Compete for commissioned research opportunities with the potential to make direct contributions to the development of new policies, programs, and service delivery systems.	<ul style="list-style-type: none"> <li>• 13 submissions in response to requests of CARBC members for commissioned work in relevant areas (11 successful)</li> <li>• 8 commissioned projects undertaken and completed</li> <li>• \$1.632 million successfully secured for commissioned research and knowledge exchange activities</li> </ul>



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