Conference Summary: Canada in the Global Economy

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This article is a report on the Bank of Canada’s annual research conference, hosted by the Bank in November 2004. It describes the purpose of the conference and provides highlights of the papers presented in each of the five sessions, as well as summaries of the keynote lecture and the discussion of the policy panel.

The Bank of Canada’s annual research conference, held in November 2004, examined the real and financial linkages between the Canadian economy and the economies in the rest of the world. It is well known that by most standard measures of openness to trade and financial flows, Canada is among the most open of the industrialized countries.1 This openness is largely a function of Canada’s relatively small size, compared with other developed countries; its proximity to the United States; its strong comparative advantage in natural resource products; and its economic policy, which, in the postwar period, has been committed to liberalizing trade and financial flows. Canada has profited enormously from its openness to international trade in goods, services, and financial assets, through the gains from the specialization of production, the expansion of markets, and increased access to new financial instruments to facilitate the diversification of risk. Although the net benefits to the Canadian economy of being so open are clearly positive, the downside is increased exposure to external shocks. Indeed, many of the most significant shocks to the Canadian economy in recent years have come from abroad—they have become the rule, rather than the exception.

Therefore, because of Canada’s close ties with the rest of the world, comprehending the extent and nature of the external linkages, their implications for the Canadian economy, and the process by which the Canadian economy adjusts to external shocks is of critical importance in the formulation of monetary policy and in the Bank of Canada’s monitoring of the Canadian financial system. Thus, the main purpose of this conference was to deepen our understanding of these critical issues.

Canada has profited enormously from its openness to international trade in goods, services, and financial assets, but the downside is that many of the most significant shocks to the Canadian economy in recent years have come from abroad—they have become the rule, rather than the exception.

1. In 2003, the sum of Canada’s imports and exports exceeded 60 per cent of gross domestic product (GDP), which is several times larger than the G-7 average. For more details on Canada’s relative openness, please consult Helliwell and Schembri (this issue). It is worth noting that Canada was one of the original signatories to the General Agreement on Tariffs and Trade (GATT) in 1947; and that, in 1989, the Canada-U.S. Free Trade Agreement (FTA) came into being, followed by the North American Free Trade Agreement (NAFTA) in 1994. On the financial side, Canada abolished exchange controls in 1951, one of the first industrialized countries to do so after World War II.

The International Department at the Bank of Canada, which is responsible for monitoring and analyzing economic events in the rest of the world, was the host department for the conference. The International

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Department, along with the other analytic departments at the Bank, analyzes this information to determine the impact of external shocks on the Canadian economy and on the Canadian financial system, and to help develop the appropriate policy response. The goal of the conference was thus to help improve our own research and the quality of our analysis and advice.

The conference consisted of five sessions, the John Kusczczak Memorial Lecture, and a closing policy panel. Two or three papers were presented in each session, for a total of eleven. Six were written by economists from the Bank of Canada, and five by economists from universities or other policy institutions. The paper presentations in each session were followed by comments from designated discussants and questions from the floor. Professor Charles Engel of the University of Wisconsin gave the keynote Kusczczak Lecture, and the members of the policy panel were Mark Carney, Senior Associate Deputy Minister of Finance; John Helliwell, Emeritus Professor of the University of British Columbia; and William White, Economic Adviser and Head of the Monetary and Economic Department at the Bank for International Settlements. The policy panel examined Canada’s role in the formulation of international macroeconomic policy. Engel and the panel members also took questions from the floor. The conference volume includes all of the papers, the discussants’ comments, the addresses of Engel and the panel members, and summaries of the question-and-answer periods. Highlights of the papers are outlined here, together with summaries of the keynote lecture and the discussion of the policy panel.

Session 1: Financial Market Linkages

Recently, there has been considerable interest in the issues of financial globalization and the economic implications of increased capital market integration. Although the trend has been towards greater international integration of financial markets, the evidence provided in the two papers in this session indicate that these markets are not as well integrated as some would believe.

Andrew Rose develops a new methodology for testing asset-market integration by examining whether the expected intertemporal marginal rate of substitution (EMRS) across different portfolios of equities within and across markets is the same. This test exploits the basic asset-pricing equation, which states that the price of an equity today is the discounted value of the expected future return. In particular, he argues that two portfolios are integrated if they are priced with the same stochastic discount factor, given by the inverse of the EMRS. From the asset-pricing equation, Rose derives an estimable empirical model using the percentage return as the dependent variable and the ratio of the equity price to the systemic component of the price as the independent variable (this ratio is a measure of idiosyncratic risk). The coefficient on this variable is the inverse of the EMRS.

Although the trend has been towards greater international integration of financial markets, the evidence indicates that these markets are not as well integrated as domestic financial markets.

Rose obtains estimates of the EMRS by using two data sets: monthly data spanning the period January 1994 to December 2003; and daily data from 2003. These data are from several hundred firms on the Standard & Poor’s (S&P) 500, the New York Stock Exchange (NYSE), and the Toronto Stock Exchange (TSX). For the purpose of estimation, he groups the firms into portfolios of 20 stocks. His main finding is that his estimates of the EMRS are the same across portfolios in the same market, as theory would predict, but that they are different across markets, in particular, between the NYSE and the TSX. It is interesting to note that the difference is of similar magnitude between the NYSE and the S&P 500. Hence, these limits to financial integration seem more related to structural differences across financial markets than to national differences.

Jean Imbs examines the impact of financial integration on business cycle correlations, using data for Canadian provinces and U.S. states. This research is motivated, in part, by the well-known “Quantity Puzzle”—the observation that the correlation of output across coun-

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2. John Helliwell was Special Adviser at the Bank of Canada from August 2003 to July 2004.

3. Titles and full texts of the papers presented at the conference will be published in a volume of conference proceedings later this year. Publication of the conference volume will be noted in an upcoming issue of the Review.
tries is positive, and larger than the correlation of consumption. One aspect of this puzzle is that financial integration at the international level seems to increase the correlation of output, but standard theory would predict the opposite. He finds that the puzzle disappears when intranational province and state data on output and disposable income (in lieu of consumption data) are used; consumption is more highly correlated across provinces and states than output. He also finds that these intranational regions are more financially integrated, which permits increased consumption smoothing, and that the increased financial integration reduces output correlations, rather than increasing them, as with international data. It thus appears that national financial markets are an order of magnitude more integrated than international financial markets, because the empirical results for national markets conform to standard economic theory, whereas those for international markets do not.

Session 2: Exchange Rate Determination in a Global Setting

The primary motivation for these two papers is the unusually large (25%) and rapid appreciation of the Canada-U.S.-dollar exchange rate between the first quarter of 2003 and the third quarter of 2004. This appreciation cannot be readily explained by the traditional exchange rate equation developed at the Bank of Canada by Amano and van Norden. This equation is a regression model of the bilateral real Canadian exchange rate that incorporates a long-run cointegrating relation between the real exchange rate and the real prices of Canada’s energy and non-energy commodity exports. To capture the short-term dynamics, the model also includes the short-term Canada-U.S. interest rate differential as well as the first difference of the Canada-U.S. relative public debt. Both papers in this session begin with the traditional Bank equation and then modify it to improve its explanatory power, in particular, over the recent period of appreciation.

Bailliu, Dib, and Schembri focus on the role of multilateral adjustment to U.S. macroeconomic imbalances in determining shifts in the value of the Canadian dollar. They argue that, under normal circumstances, movements in the exchange rate are reasonably well explained by the bilateral Canada-U.S. variables in the traditional exchange rate model. There are, however, situations when U.S. external imbalances are relatively large, such as in the early-to-mid 1980s and over the most recent period. To redress this imbalance, the Canadian dollar may have to adjust in tandem with the currencies of other countries, because the U.S. economy represents such a large part (about a third) of the world economy. Such exchange rate movements cannot be understood by focusing solely on bilateral Canada-U.S. variables, because the adjustment process is global. The authors consider U.S. fiscal deficits and current account deficits as measures of macroeconomic imbalance and adopt a two-step threshold-regression model that allows the coefficient estimates of the traditional Bank equation to change when these imbalances are large. The first step is to estimate the threshold value of the measured imbalance and then to estimate the coefficient estimates with non-linear least squares. The authors find that the U.S. fiscal deficit, rather than the current account deficit, is the appropriate threshold variable; this result is appealing because current account deficits can occur during investment booms, as happened in the late 1990s, when the U.S. dollar was strong. It is also consistent with the “twin-deficits” phenomena (when there are both current account and fiscal deficits) of the mid-1980s and of the period since 2002. The authors modify the equations to include the two measures of U.S. macroeconomic imbalance and find that the specification of the exchange rate equation changes when the deficit is greater than 2.65 per cent of GDP. Overall, the threshold model represents a significant increase in explanatory power over the traditional model.

4. See Backus, Kehoe, and Kydland (1994) for more details. A standard theoretical model with complete financial markets would predict that consumption should be more correlated across countries than output, since consumers use the international financial markets to smooth their consumption profiles.

5. See Amano and van Norden (1995) for further details.

Under normal circumstances, movements in the exchange rate are reasonably well explained by the bilateral Canada-U.S. variables, but there are situations when U.S. external imbalances are relatively large, so that the Canadian dollar may have to adjust in tandem with the currencies of other countries, because the U.S. economy represents such a large part of the world economy.
Helliwell, Issa, Lafrance, and Zhang make several modifications to the traditional Bank exchange rate equation. In particular, the traditional equation models the real exchange rate as the dependent variable; Helliwell et al. model the nominal exchange rate. They also replace the real price of energy in the long-run cointegrating relation, which they find is no longer statistically significant, with the ratio of labour productivity in manufacturing to total labour productivity in Canada relative to that in the United States. This latter variable represents the ratio of labour productivity in the traded-goods sector to total labour productivity in the two countries. The estimated coefficient on this variable implies that an increase in Canadian manufacturing productivity, all else unchanged, causes the real and nominal exchange rates to depreciate. The authors argue that this effect is consistent with the impact of a positive supply shock in the traded-goods sector, which necessitates a real depreciation. The empirical model also includes two other short-run explanatory variables in addition to the Canada-U.S. interest rate differential: namely, the emerging-market bond spread to capture shifts in international risk preferences on the Canadian dollar; and the effective U.S.-dollar exchange rate to represent the portion of the movement in the Canadian exchange rate that is driven by the multilateral adjustment of all other currencies relative to the U.S. dollar. The modified model fits the nominal exchange rate well, in and out of sample, and represents a considerable improvement over the traditional equation in terms of explaining movements in the nominal exchange rate.

Session 3: Current Account Dynamics

The Canadian current account measures the net balance on transactions in goods and services between Canadian and foreign residents. For most of its history, Canada has had a current account deficit, largely reflecting the excess of domestic investment over domestic savings. Since 1999, the situation has reversed: the current account has been in surplus and Canadians are, on net, investing abroad. In general, the current account is determined by a variety of Canadian and foreign variables that reflect current and expected future consumption, production, investment, and saving decisions and the extent to which Canada is linked to the rest of the world by trade in goods and services. The papers in this session extend existing models to better understand the determinants of the Canadian current account.

Bouakez and Kano apply the intertemporal model of the current account for Canada to investigate the existence of a Harberger-Laursen-Metzler effect: the proposition that an increase (decrease) in the terms of trade causes an increase (decrease) in the current account balance. The rationale for such an occurrence in an intertemporal setting is that a temporary rise in the terms of trade, for example, causes a temporary increase in real income, and consumers will respond by smoothing this income increase over their lifetime consumption. Hence, over the period when the terms of trade rise, income goes up by more than consumption, and the current account increases. From their optimizing model of a small open economy, the authors derive a closed-form estimable equation for the current account that is based on current and expected values of the real interest rate, the real exchange rate (defined as the relative price of tradables to non-tradables), real output, and the terms of trade. The empirical model is estimated using quarterly Canadian data from 1962Q2 to 2001Q2. It is reasonably successful: the predicted current account is 60 per cent as volatile as the actual series, which is an improvement over past estimates, and the first three variables are statistically significant and economically meaningful. The terms of trade variable, however, is not found to be significant in explaining Canadian current account fluctuations, given the presence of the other three variables in the equation. This somewhat puzzling result is consistent with other similar findings in the literature.

Boileau and Normandin examine the joint behaviour of Canadian output, the current account, and the interest rate differential at the business cycle frequency. Their main innovation is to allow for a difference between the domestic and the world interest rates, which is determined by the net foreign asset position of the domestic economy. They derive a real business cycle model for a small open economy with three shocks (productivity, government expenditure, and the world interest rate), determine parameter values for the model based on post-1975 Canadian data, and generate dynamic responses of the three variables of interest to the three shocks. The productivity shock is found to have the largest impact, while the impacts of the shocks to government expenditure and the world interest rate are small to non-existent. The productivity shock raises output and lowers the current account, because investment rises faster than savings, and this reduces the net

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6. For example, Otto (2003).
foreign asset position, which in turn causes the interest rate to rise. The authors then compare the variances and cross-correlations generated by the model to those they compute using the detrended post-1975 quarterly data for Canada. In the data, consumption, the current account, and the interest rate differential are less volatile than output, while investment is more. Only the current account is found to be countercyclical; the other variables are procyclical. The results from the model compare favourably with those from the data; the main discrepancies are that the simulated current account is much less volatile than the actual current account, at around 25 per cent, and the simulated interest rate differential is 2.7 times more volatile than the actual.

Session 4: Real Linkages: Canada and the United States

It goes almost without saying that the United States is Canada’s closest economic partner. By almost any measure, whether it is exports (82 %), imports (69 %), or stocks of inward (64 %) or outward (41 %) direct investment, the United States is in most cases on the other end of any international transaction Canada undertakes. Although this close economic relationship is largely driven by geographic and cultural proximity, and complementary resource endowments, it has been greatly strengthened by the economic policies adopted by the two countries. Capital flows between Canada and the United States have largely been unimpeded. Although the liberalization of trade in goods and services has been more sporadic, the Auto Pact of 1965 was an historical agreement and had a huge impact on the production and trade of automobiles and their parts in North America. The Free Trade Agreement of 1989, followed by NAFTA in 1994, also had a significant impact, as trade of goods and services between the two countries increased dramatically.

The three papers in this session are very complementary; they adopt different approaches to analyze the relationship between the Canadian and U.S. business cycles. Generally speaking, they find a close economic relationship between the two economies, which has grown closer as bilateral trade has increased.

Gosselin, Lalonde, Perrault, and Stuber examine the determinants of business cycle variations in Canadian output at the industry level. They employ output data for Canada and the United States for the years 1963 to 2001; the Canadian and U.S. data are disaggregated by 10 industries and 13 regions (five Canadian and eight U.S.). They estimate a state-space model for each industry to decompose business cycle output movements in that industry into a common North American factor, a Canadian factor, and regional and idiosyncratic factors. They find that the Canadian factor is predominant for the Canadian business cycle, but the influence of the common North American factor has increased over the sample, at the expense of regional-specific shocks. On a regional basis, they find, not surprisingly, that the North American factor is most important for Ontario and Quebec. Over the sample, the Canadian factor increases in importance for the manufacturing sector, implying that this sector has likely become more specialized over time in the products in which Canada has a comparative advantage. The last key result is that industry composition matters, in the sense that the factors that explain output variation across industries are different. Manufacturing and wholesale and retail trade are more related to the North American component, whereas the Canadian factor is relatively more important for most non-traded industries; for the primary sector, idiosyncratic shocks dominate (which may be the result of movements in world commodity prices). Given this variation across sectors, it is critical that monetary policy and other public policy aim at creating a flexible and well-functioning Canadian economy.

Cardarelli and Kose investigate the impact on the Canadian business cycle and labour productivity of the free trade agreements (FTA and NAFTA) between Canada and the United States. They provide a useful review of the literature and evidence of the impact of these agreements on the level and compositions of trade flows. They remark that bilateral trade has increased dramatically—exports to the United States have more than doubled as a share of Canada’s GDP, from 15 per cent in 1989 to over 30 per cent in 2002—and also note that Canada’s exports have become more specialized in manufactured goods and contain more imported intermediate goods. They estimate a dynamic-factor model using aggregate output, consumption, and investment in Canada and the United States over

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7. The trade data are for 2004, the stock data on foreign direct investment for 2003.

8. In general, state-space models are similar to dynamic-factor models, such as the one presented by Cardarelli and Kose at the conference; the main difference is the imposition of the identifying restriction to identify the orthogonal dynamic factors.
the period 1960 to 2002 and find that the common North American factor becomes more significant over time, as the bilateral trade flows increased, but the country-specific and idiosyncratic factors still remain important. They also use a regression model to examine movements in the total-factor-productivity (TFP) gap between Canadian and U.S. industries and remark that the increased trade has raised Canadian TFP, but that the gap has not been eliminated because of differences in industrial structure between Canada and the United States: the rapidly growing information and communications technology (ICT) sector represents a smaller share of Canadian industry. Because the TFP gap remains, the authors argue for further efforts to eliminate less obvious barriers to trade, such as regulatory differences, between the two countries.

Voss examines the synchronization of Canadian and U.S. business cycles at the aggregate level and at the industry level. He computes partial correlations for the Canadian and U.S. output for the period 1963 to 2003 using aggregate data, and at the industry level (9 sectors) for the period 1978 to 2001. At the aggregate level, he tests for a structural break in the output correlations at 1980. Voss finds some evidence of an increase in business cycle synchronization at the aggregate level: the Canada-U.S. output correlation is higher after 1980, and the highest correlation takes place in the same quarter, rather than with U.S. output lagged by one quarter, as in the pre-1980 sample. With the industry-level correlations, he finds evidence that there is a high degree of economic integration between the two economies.

**Session 5: Real Linkages: Canada and the Rest of the World**

Although Canada’s primary external economic linkages are with the United States, historically Canada has had very important links with Europe, and in particular, with the United Kingdom. The first paper in this session reviews Canada’s trade and investment linkages with Europe and examines how they have changed over the past 40 years, especially in view of the evolution of the European Union from a free trade area with six countries to a virtual economic union with 25 countries.

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The second paper in the session shifts the geographic perspective 180 degrees, to Asia. Although Canada’s economic ties with Europe have declined in relative importance, the economic significance of east and south Asia to the global and Canadian economies is growing larger. The paper focuses on China and India, since they are the largest and among the fastest-growing countries in this region. Since 1990, China and India have grown by 9.3 per cent and 5.6 per cent per year, to become the seventh and twelfth largest economies, respectively. Despite this period of rapid growth, the per capita GDP of both countries continues to be well below those of industrialized countries, indicating that there is still much potential for further growth as their economic resources become more fully and efficiently employed and as capital accumulates as a result of very high savings rates. Although Canada’s direct economic ties with these countries, in terms of trade and investment, are still relatively small, China and India have an important effect on Canada through their impact on global markets, especially for commodities and labour-intensive goods. Although careful analysis has not yet been conducted, in part because of the lack of data, it is widely believed that both countries, especially China, have significantly raised the world prices of commodities through their increased demand, and have lowered the relative prices of many labour-intensive goods, especially con-

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9. This ranking is based on the use of market exchange rates. If purchasing-power-parity rates are employed, China and India would be the second and fourth largest economies.
The paper examines the reasons underpinning the rapid growth of the Chinese and Indian economies and the effects on Canada. 

Cameron, Coté, and Graham provide a comprehensive and detailed review of Canada’s trade and investment links with Europe since 1960. In particular, they examine the evolution of economic integration within the European Union and its ramifications for Canada, and provide an historical overview of Canada-Europe trade relations. They analyze the aggregate bilateral trade and investment data and estimate an export-share model for Canada’s trade with European countries. Their main conclusion is that, although Canada’s trade with the United Kingdom, especially in non-energy commodities, declined significantly after the United Kingdom joined the European Community in 1973 and Commonwealth preferences were abolished, the rest of Europe has maintained its share of bilateral trade and investment with Canada. They confirm, as well, that Canada’s experience was similar to that of New Zealand and Australia. The finding that Canada has been able to maintain its export share with Europe (excluding the United Kingdom) is generally consistent with the facts that trade among industrialized countries has grown faster than GDP over the postwar period, and that Europe has experienced reasonable rates of economic growth over most of this period, owing partly to the formation of the European Union.

Desroches, Francis, and Painchaud examine growth in India and China and its implications for Canada from several different perspectives. They consider the role of trade liberalization and institutional reform in explaining economic growth in these countries by first documenting the measures that they have already taken. They conclude that the two countries have taken significant steps in both areas, but that efforts to promote trade have outpaced institutional reform, especially in China. They also perform an econometric analysis with a broad panel data of over 80 countries to find that these two variables have a synergistic effect on economic growth; in particular, they conclude that trade liberalization in the absence of institutional reform may not have a large impact on growth. Using detailed data on exports, they construct measures of export sophistication that show that both countries have moved up the ladder of comparative advantage in terms of exporting more sophisticated goods. They also find that Canada has concentrated its exports farther up the ladder as well, which, the authors argue, could be owing to lower relative prices for less sophisticated goods, driven by China and India’s increased contribution to the world supply of these goods. Finally, the authors find that bilateral trade between China and Canada has increased rapidly in recent years (over 157% between 1997 and 2003), which has had a significant impact on economic growth in Canada.

John Kuszczak Memorial Lecture: Canada’s Exchange Rate

In his lecture, Engel makes four sequential arguments that lead to his conclusion that cooperative monetary policy aimed at smoothing fluctuations in the Canada-U.S. exchange rate may be welfare improving. First, using new transactions price data on individual commodities collected by the Economist Intelligence Unit, he confirms the Engel and Rogers (1996) finding that the law of one price does not hold between Canadian and U.S. cities. He maintains that this evidence is consistent with the hypothesis of local-currency pricing. Second, he argues that the Chen and Rogoff (2003) model of the empirically well-established link between commodity prices and the Canadian real exchange rate stems from changes in the relative price of non-traded to traded goods; and third, he demonstrates that this channel is not consistent with the data. Lastly, he develops a simple two-country (Canada-U.S.) model in which commodity-price movements imply a real transfer of resources between Canada and the United States. He argues, for example, that a commodity-price increase implies that a transfer from the United States to Canada must cause an appreciation in order to restore balance-of-payments equilibrium. Such an appreciation causes welfare losses, because the resulting relative price movements do not reflect changes in underlying costs, and thus, resources would be misallocated. Hence, there may be scope for the use of cooperative monetary policy to limit exchange rate movements to reduce this welfare loss.

Closing Panel: Canada’s Role in International Macroeconomic Policy

In past conferences, the closing panel typically provided a critical review of the papers presented. At this con-
ference, the panel was asked to reflect on Canada’s role in the formulation of macroeconomic policy at the international level, because policy decisions made by bodies such as the G-7, the G-20, and the different international fora on financial stability have important implications for Canada as an open economy. Indeed, Canada is unique in the sense that it is “large” enough, in either a political or an economic sense, to be included in such decision making at the highest level, yet sufficiently small that it still resembles the prototypical small open economy with strong economic links to the rest of the world. The three panelists were asked to provide different perspectives on Canada’s role.

Carney addressed the G-7 process after spending almost a year as Canada’s G-7 Deputy at the Department of Finance. He made several interesting remarks about the G-7 process and Canada’s role. Carney opened by discussing the G-7 priorities in recent years: he felt that at least half of the G-7’s attention was being paid to development and debt issues in the poorest countries, and that oversight of the International Monetary Fund and the World Bank was also an important priority. Other international macroeconomic policy challenges often did not receive the attention one might expect. He felt that there are three international macroeconomic policy issues that are important for Canada, and that Canada has and should continue to push these issues forward by its thoughtful and disinterested analysis and through the Bank of Canada’s collaborative efforts with central banks in other countries. In particular, he noted international architecture reform, structural resolution of global imbalances, and current concerns involving oil prices or exchange rates. Canada has an envious record of recent macroeconomic performance and can draw from that experience to make meaningful interventions on these issues.

Helliwell provided an insightful overview of several of the conference papers. He stressed that, despite the rapid growth in international trade and capital flows over the postwar period, many of the papers found that national markets appear distinct. Helliwell noted that these findings of “border effects” have less to do with traditional barriers to trade than with the fact that it may be more efficient to organize economic activity along national lines, given common institutions, similar tastes and shared values.

He also noted the importance of institutions, defined broadly to include social capital, for economic growth. He concluded by arguing that middle-level countries like Canada, which lack the pretence of being military or economic powers, but have made important contributions to the good governance of their own countries as well as that of the international community, can play an important leadership role. In particular, they can build coalitions for reform within the traditional international institutions, or lead new policy experiments, such as the G-20, to bridge the policy gap between the G-3 and emerging-market countries.

Middle-level countries like Canada, which lack the pretence of being military or economic powers, can play an important leadership role as “honest and thoughtful brokers” in international macroeconomic policy deliberations.

White carried on with Helliwell’s theme of Canada as an “honest and thoughtful broker” in international macroeconomic policy deliberations. Drawing on his experience as a deputy governor at the Bank of Canada and then the economic adviser at the Bank for International Settlements, White provided an insightful and engaging overview of the contribution that Canada (via the Bank of Canada) and individual Canadian economists have made to the intellectual framework for international macroeconomic policy making, to international cooperation, and to the international institutions themselves. He paid particular attention to Canada’s involvement in issues of financial stability.

11. He was on leave from his position as Deputy Governor at the Bank of Canada.
Literature Cited


