

# Universities Academic Pension Plan

2013 Annual Report

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## PROFILE

The Universities Academic Pension Plan (UAPP) was established in 1978 as a defined benefit pension plan for members of the academic and professional staff of Alberta universities and The Banff Centre. The UAPP was set up under the Public Sector Pension Plans Act (Alberta) and the Provincial Treasurer was the trustee until December 31, 2000.

The UAPP became an independent pension plan registered under the Employment Pension Plans Act (Alberta) and the Income Tax Act (Canada) as of January 1, 2001. The UAPP is now established under the Sponsorship and Trust Agreement signed by the academic staff associations and the boards of governors of four Alberta universities and The Banff Centre as Sponsors.

- The Board of Trustees, as established under the Sponsorship and Trust Agreement, is responsible for administering the Plan and investing the Fund.
- The UAPP is financed by employer and employee contributions, and by investment earnings. The Alberta Government also contributes towards eliminating the unfunded liability for service before 1992.
- The UAPP has approximately 7,650 active members, 1,700 deferred members and 4,400 pensioners.
- The UAPP Fund's market value at the end of 2013 was \$3,358 million.

# GOVERNANCE OF THE PLAN

## *Mission*

*It is the mission of the Board to deliver on its mandate in a manner that is consistent with:*

- *high quality services to the UAPP members and stakeholders,*
- *prudent investment of the Fund,*
- *seeking stable contribution rates within the funding requirements of the EPPA,*
- *best practices in pension plan governance and management, and*
- *all applicable rules, laws and regulations.*

## *Values*

*In carrying out its mission, the Board is guided by the following values:*

- *work in full partnership with Sponsors,*
- *be member/stakeholder focused,*
- *be open, accountable and responsible for its actions,*
- *conduct UAPP business with trust, fairness and integrity,*
- *adhere to the highest ethical standards,*
- *value and treat its employees as a vital resource, and*
- *learn, adapt and change to conduct the UAPP business better.*

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## *Board Composition*

*The Board of Trustees (Board) of the UAPP oversees the Plan. The Board is composed of five employer trustees and four employee trustees. However, the total votes carried by the employer trustees are the same as the votes carried by the employee trustees. The offices of Chair and Vice-Chair alternate every two years between employer and employee trustees.*

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## *Board Mandate*

*The Board is responsible for administration of the UAPP, investment of UAPP funds, setting contribution rates required to fund the UAPP and assisting Sponsors in developing appropriate changes to the UAPP. In carrying out its mandate, the Board is assisted by a small management team.*

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# GOVERNANCE OF THE PLAN

## Board of Trustees 2013

Employer Appointees

Phyllis Clark

Jonathan (Jake) Gebert (Vice-Chair)

Estelle Lo

Art Nutt

Nancy Walker

Employee Appointees

Linda Bonneville

Daniel Furgason (Chair)

Aditya Kaul

Paul Rogers

## Committees 2013

Actuarial Committee

Phyllis Clark

Estelle Lo

Daniel Furgason (Chair)

Audit Committee

Linda Bonneville

Nancy Walker

Art Nutt (Chair)

Investment Committee

Ron Bercov

Tom Bradley

Jonathan (Jake) Gebert (Chair)

Aditya Kaul

Phyllis Clark

Bob Normand

Daniel Furgason

## Administration Services Provider

### Buck Consultants

Member Pension inquiries:

155 Wellington Street West

Suite 3000

Toronto ON M5V 3H1

Attn: UAPP Administrator

Phone: 1.866.709.2092

Email: [uappadmin@acs-hro.com](mailto:uappadmin@acs-hro.com)

### Pensioner Payroll

#### CIBC Mellon Global Securities Services Company

Pensioner Payroll inquiries:

CIBC Mellon Pension Benefits Department

PO Box 5858, Station B

London ON N6A 6H2

Phone: 1.800.565.0479

Email: [www.CIBCMellon.com](http://www.CIBCMellon.com)

## Investment Management

Alberta Investment Management Corporation (AIMCo)

Beutel, Goodman & Company Ltd.

Fiera Capital Corporation

### Asset Consultants & Actuary

Aon Hewitt

### Auditor

KPMG LLP

## GOVERNANCE OF THE PLAN



**Daniel Furgason (Chair)**  
*University of Lethbridge*



**Estelle Lo**  
*Athabasca University*



**Jake Gebert (Vice-Chair)**  
*University of Calgary*



**Nancy Walker**  
*University of Lethbridge*



**Paul Rogers**  
*University of Calgary*



**Phyllis Clark**  
*University of Alberta*



**Aditya Kaul**  
*University of Alberta*

**Linda Bonneville** (missing)  
*Athabasca University*

## CHAIR'S MESSAGE



*With an earned rate of return of 13.10% the UAPP generated investment income of \$402 million during 2013 resulting in plan assets valued at \$3.36 billion. This solid investment performance was generated from strong returns in our public equity and alternative investments.*

*Significant economic stimulus in the U.S., Japan and Europe lead to strong global equity performance while over the same period, inflation, volatile currencies, and weak demand for global commodities hampered the performance of emerging markets. The Board continues to focus on Plan funding and asset allocation to ensure sufficient assets are available to meet the future obligations and secure Plan benefits.*

*During 2013, the Board undertook an actuarial valuation of the Plan as at December 31, 2012. The Board conducted a detailed review of the actuarial assumptions to be used for the valuation and, in consultation with its actuary, lowered the interest rate used to calculate the present value of the liabilities from 6.4% to 6.25%. This had the effect of raising the calculated value of the Plan's liabilities. The Board also saw fit to adopt a revised mortality table to better reflect improvements in mortality. Beginning in 2014, it is expected that new Canadian mortality tables, reflecting significant improvements in mortality, will be adopted by the Canadian Institute of Actuaries. In order to capture some of the financial impact of these mortality improvements, rather than waiting, the Board adopted a revised mortality table for the current valuation. Based on the results of this strengthened valuation, the Board decided to increase combined employee and employer contributions by a total of 1.38% of salary effective July 1, 2014. This increase will be shared equally between employees and*



## CHAIR'S MESSAGE

*employers and the new contribution rates will pay for the current service costs and the unfunded liabilities. A copy of the actuarial valuation is available on the UAPP's website at [www.uapp.ca](http://www.uapp.ca) under the "Publications" tab.*

*All defined benefit pension plans in Canada similar to the UAPP face funding challenges that reflect changes in demographics, historically low interest rates, and volatile investment markets. Retired members are living longer. As a consequence, traditional plan provisions such as generous early retirement and survivor benefits, and guaranteed cost-of-living adjustments have become increasingly expensive, and, increasingly volatile when predicting plan costs. While the Board carries the fiduciary responsibility for the Plan, the design of the Plan is the responsibility of the Plan Sponsors. During 2013, the Plan Sponsors proposed changes to the UAPP including changes to early retirement and cost of living adjustments. We have been notified by the Plan Sponsors that several Sponsors did not vote in favour of the proposed plan design changes, consequently, they will not take effect. We understand that the Plan Sponsors are committed to creating a strategy that addresses both the needs of the members and financial sustainability into the future.*

*The Board continues to closely monitor the performance of the Fund, the Plan's financial position and industry developments relevant to the UAPP on a quarterly basis. Previously, the Board decided to implement a multi-manager investment structure by adding two additional investment management firms to manage a portion of the Fund's fixed income investments. Approximately 20% of the Fund's total investments were transferred to these new managers during August and September 2013.*

*The Board places a high priority on quality services to members and is pleased to note members continue to be provided with excellent service, as shown by the performance against the standards set in ten key areas of service vital to our members. The details of the standards and related performance are included in the section dealing with Plan Administration in this Report.*

*We regularly update UAPP members and other stakeholders through publications such as the quarterly Communiqué and the UAPP website. A call centre is also available to members seeking information about the*

## CHAIR'S MESSAGE

*UAPP. The Retirement Planning tool that is available through the website continues to be heavily used by the members. The Trustees' Office also provides pension information sessions when requested by employers.*

*The Board would like to express its gratitude to Ron Bercov, Tom Bradley and Bob Normand who as external members of the Investment Committee give generously of their time. Tom Bradley and Ron Bercov elected to resign from the Investment Committee during the year. Ron Bercov's relationship with the UAPP spanned more than 25 years both as a member of the Board and Investment Committee and his dedication to the UAPP is sincerely appreciated.*

*On behalf of the Board, I would like to also thank Art Nutt and Anne Stalker who left the Board during the year. Art, over the last 13 years, and Anne, over the last 7 years were active participants and made a valuable contribution to the Board. I would also like to welcome Paul Rogers, who is replacing Anne, on the Board.*

*As my term as Chair and member of the UAPP Board is ending, I would like to thank the Board members with whom I have worked closely with over the last 14 years and who have helped make the experience both a positive and productive one. I would like to welcome Nancy Walker as the new Chair of the Board and wish her well in her new responsibilities.*

*The Board relies on a small team to carry out its mandate. On behalf of the Board, it is my great pleasure to acknowledge and thank our strong team at the Trustees' Office for their dedication and service to the UAPP.*

A handwritten signature in black ink, appearing to read 'D. Furgason', enclosed within a faint, light-grey circular border.

*Daniel Furgason  
Chair, Board of Trustees*



# MANAGEMENT DISCUSSION AND ANALYSIS

## FINANCIAL POSITION OF THE PLAN

### THE PLAN'S ASSETS

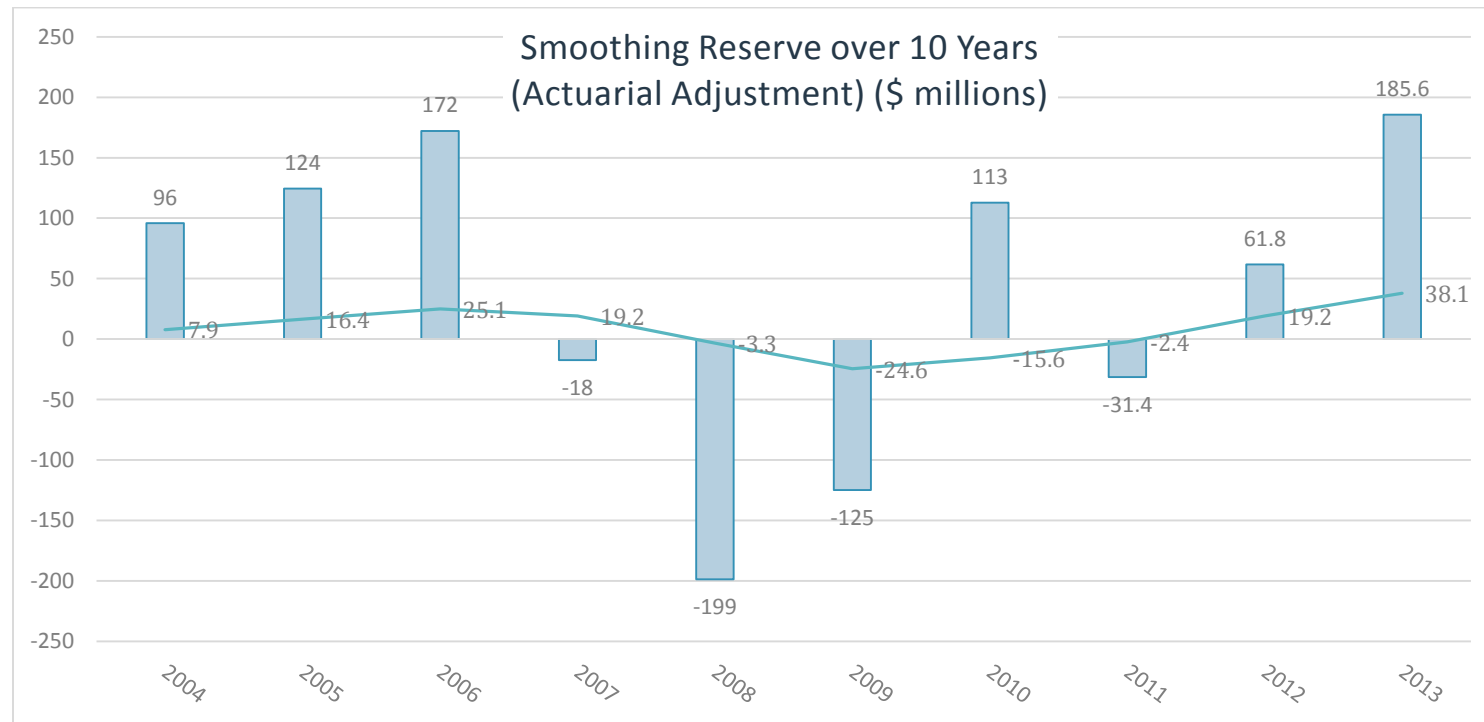
The market value of the Plan's assets was \$3,357.2 million at the end of 2013, a 13.7% increase from the fund value of \$2,952.0 million from a year ago. This reflects the fact that contributions received exceeded benefit payments by \$16.5 million and the Fund returned 13.1% in 2013 following returns of 11.8% in 2012 and 3.2% in 2011. The latest actuarial valuation assumed that the Fund would earn 6.25% per year starting in 2013.

<b>\$ Millions</b>	<b>December 31, 2013</b>			<b>December 31, 2012</b>		
	<b>Pre-92 Service</b>	<b>Post-91 Service</b>	<b>Total Service</b>	<b>Pre-92 Service</b>	<b>Post-91 Service</b>	<b>Total Service</b>
<b>Fair Value of Net Assets</b>	826.0	2,531.2	3,357.2	819.5	2,132.5	2,952.0
<b>Actuarial Adjustment</b>	(52.5)	(133.1)	(185.6)	(20.1)	(41.7)	(61.8)
<b>Actuarial Value of Net Assets</b>	773.5	2,398.1	3,171.6	799.4	2,090.8	2,890.2
<b>Accrued Pension Liability</b>	1,626.1	2,713.3	4,339.4	1,566.7	2,429.8	3,996.5
<b>Actuarial Deficiency</b>	(852.6)	(315.2)	(1,167.8)	(767.3)	(339.0)	(1,106.3)
<b>Funded Ratio</b>	47.6%	88.4%	73.1%	51.0%	86.0%	72.3%

The actuarial value of the Fund grew to \$3,171.6 million in 2013 from \$2,890.2 million at the end of 2012. The actuarial value of the Fund is \$185.6 million lower than the market value. The Fund uses a 3-year averaging of the differences between the rates of return assumed in the actuarial valuation and the market rates of return for calculating the actuarial value of the assets as described in Note 14 of the Financial Statements.

# MANAGEMENT DISCUSSION AND ANALYSIS

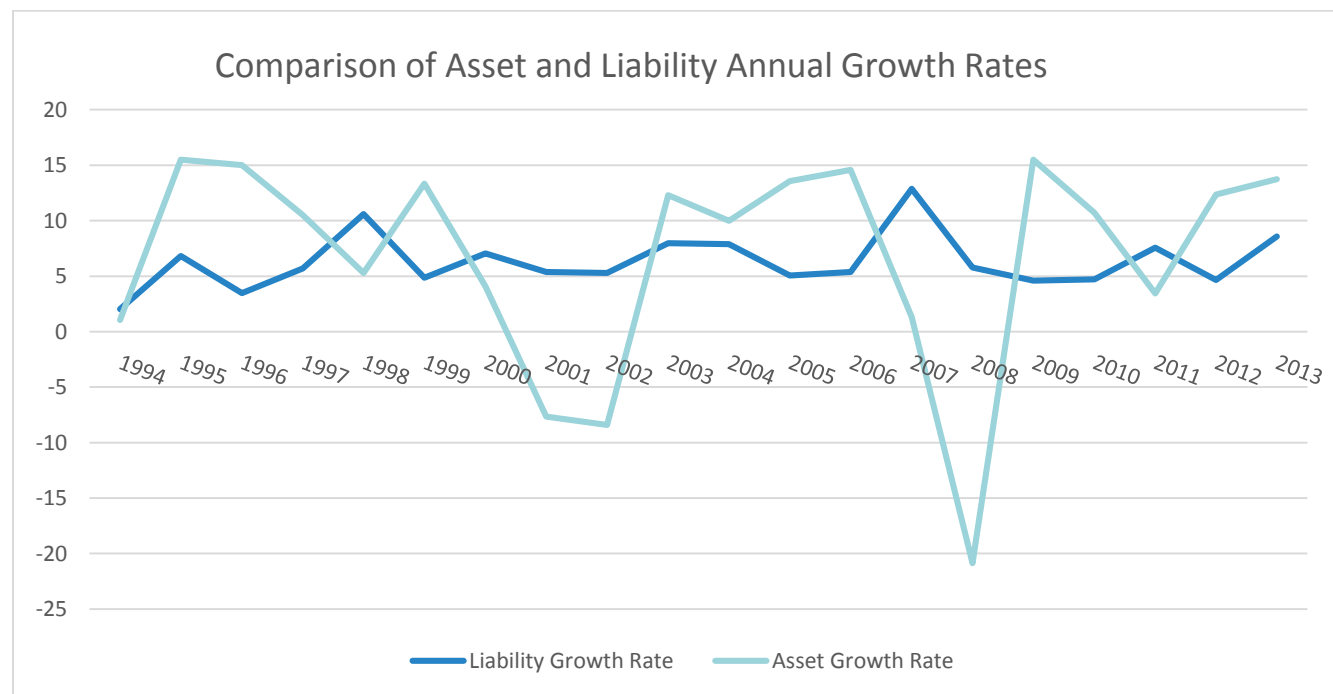
In order to dampen the magnitude of changes in contribution rates, the Plan uses the actuarial value of assets in determining the funding requirements under the Employment Pension Plans Act. In better-than-expected capital markets, the Fund builds up a smoothing reserve that can be used when the markets perform below the assumed rate. In 2012, the investment return was higher than the actuarially assumed return and, as a result, the Plan had a smoothing reserve of \$61.8 million at the end of 2012. Since the investment return in 2013 is higher than the actuarially-assumed return of 6.25%, the smoothing reserve has increased to \$185.6 million to offset future lower-than-expected returns. Even though the smoothing reserve has fluctuated from \$185.6 million to -\$199 million, it averaged \$38.1 million over the last 10 years.



# MANAGEMENT DISCUSSION AND ANALYSIS

## THE PLAN'S LIABILITIES

The Plan's liability as of December 31, 2013 has been estimated at \$4,339.4 million as compared to \$3,996.5 million reported at the end of 2012. This represents a growth of 8.6% over the liability reported in the 2012 Annual Report. In this regard, it should be noted that last year's financial statements were based on an extrapolation of the liability estimated in the 2010 actuarial valuation. A new actuarial valuation as of December 31, 2012 was subsequently completed in September 2013.



*Note: Plan liability based on valuation results for even years and extrapolation for odd years.*

# MANAGEMENT DISCUSSION AND ANALYSIS

The new valuation put the estimated liability, as of December 31, 2012, at \$4,153.3 million, some \$156.8 million higher than reported in the financial statements for 2012. This higher estimate of liability reflects changes in demographic and economic assumptions as well as differences between assumed and actual salary increases and rates of mortality, termination and retirement experienced in the two years since the 2010 valuation. It is expected that the actuaries will introduce a new mortality table in 2014 that will reflect mortality improvements, which plans will be required to adopt.

The Board elected to adopt a projected mortality table for the 2012 actuarial valuation which should reduce the impact of adopting the new mortality table in the future. Changes in economic and demographic assumptions in the December 2012 valuation accounted for \$126.4 million of the difference between the extrapolated and the new valuation results. The assumption changes are designed to incorporate expectations based on the latest available information and evolving practices. To reflect emerging trends in capital and labour markets and other areas, the Board has undertaken a full actuarial valuation every two years with adjustments to contribution rates as necessary to keep the Plan on a sound financial track.

## THE PLAN'S FUNDED RATIO

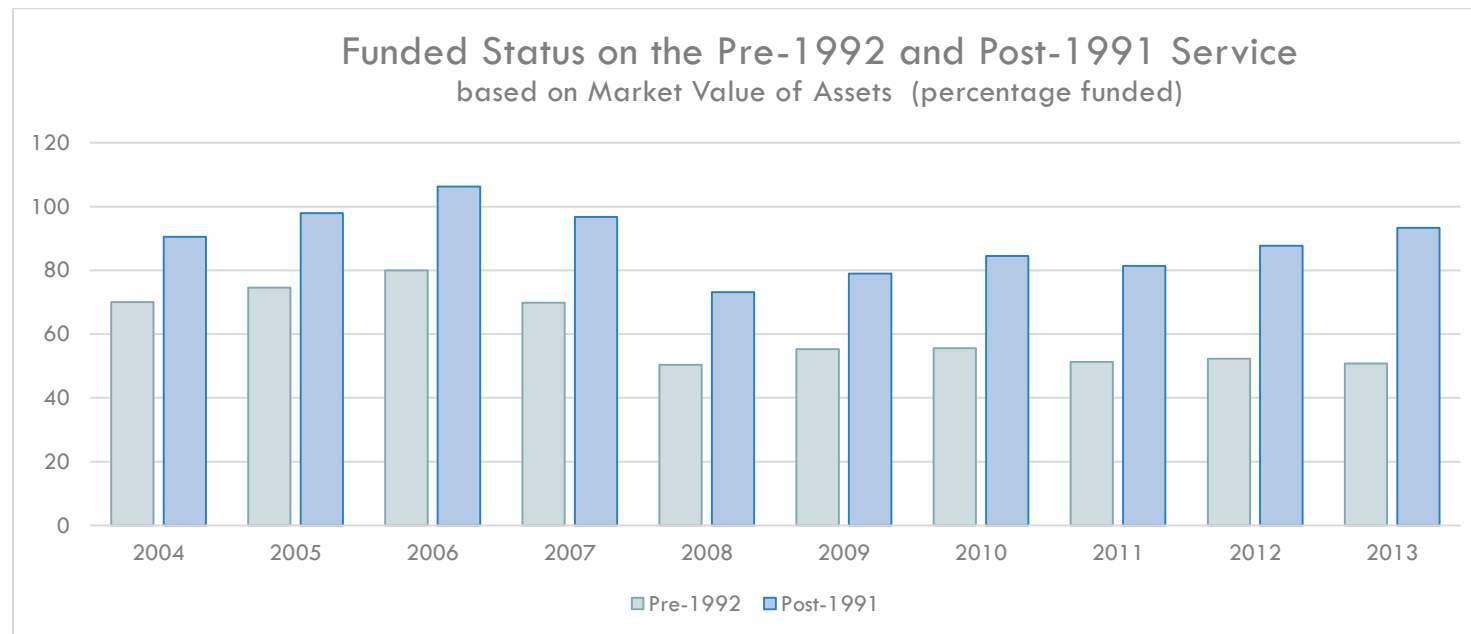
Due to a higher return on assets than the increase in the liability as extrapolated by the actuary, the Plan's funded ratio on a market-value basis in 2013 increased to 77.4% from 73.9% in 2012. The funded ratio on an actuarial value basis was 73.1% since the actuarial value of assets was \$185.6 million lower than the market value.

On the actuarial value basis, the funded ratio for pre-1992 service is 47.6% while the funded ratio for post-1991 service is 88.4%. The unfunded liability for pre-1992 service is accounted for separately from the rest of the Plan because, under the rules established by the Alberta Government, it is to be eliminated by the end of 2043. The Alberta Government pays a fixed contribution equal to 1.25% of total salary towards this unfunded liability and the employers and employees share equally the balance of the required contribution. The employer and employee contributions are adjusted at each actuarial valuation as necessary to amortize the unfunded liability over a period ending in 2043. The funded ratio for

# MANAGEMENT DISCUSSION AND ANALYSIS

pre-1992 service has eroded from 51.0% at the end of 2012 to 47.6% at the end of 2013. The funded ratio should continue to erode due mainly to the long amortization period for the elimination of the unfunded liability.

The Alberta Government's share of the contributions towards the pre-1992 unfunded liability was approximately 50% when the cost-sharing was first established in the early 1990s. It now stands at approximately 30% of the total contributions towards the unfunded liability. The unfunded liability for post-1991 service has been fully funded in the past and is expected to be fully funded in the future. The funded ratio for post-1991 service is significantly impacted by investment returns. Any unfunded liability related to this service is amortized over 15 years in accordance with pension legislation and contributions are shared between employers and employees.



# MANAGEMENT DISCUSSION AND ANALYSIS

## LOOKING TO THE FUTURE

The UAPP is a ‘final-average-salary’ defined benefit plan with a guaranteed cost-of-living allowance equal to 60% of Alberta inflation after retirement. The Plan’s estimated liability is a function of benefits promised by the Plan and the economic and demographic assumptions employed in the actuarial valuation. Economic assumptions estimate the future course of inflation, salary increases, etc. and the return the Plan’s assets can reasonably be expected to earn in the future (the latter is also called the “discount rate”). The demographic assumptions deal with such things as retirement and termination rates at different ages, life expectancy, proportion of members with a spouse, spousal age difference, etc. Since the demographic characteristics of a group generally change slowly, the assumptions related to these factors are easier to foresee and tend to move in a steadier fashion from one valuation to the next. On the other hand, the economic and financial conditions and, hence, the associated assumptions (e.g., discount rate) can be subject to greater volatility over short periods of time and their future course is much harder to foresee with certainty.

However, of all the assumptions employed in an actuarial valuation, the most powerful one is the assumed rate of return or the rate used to discount future benefit payments in order to estimate the present value of the liabilities. The assumed discount rate includes views regarding interest rates, equity risk premiums and other capital market expectations. The first block for building the discount rate assumption is the prevailing long bond rates. The long bond rates have come down from over 8% in the mid-1990s to around 3% in recent years. As these rates remain low, discount rates used in estimating the present value of liabilities will remain under pressure. The current actuarial valuation uses a discount rate of 6.25%, down from 6.4% at the previous valuation. A 1% reduction in the discount rate, keeping other assumptions constant, would increase the annual current service cost by 4% and increase the estimate of the Plan’s accrued liability by \$642.1 million or 14.8%. The Board reviews the assumptions closely at every actuarial valuation and adjusts them as necessary. By ensuring that the assumptions are reviewed regularly and adjusted to reflect the actual experience of the Plan, the risk of passing on the cost of today’s benefits to future generations is greatly reduced.



# MANAGEMENT DISCUSSION AND ANALYSIS

The goal of defined benefit pension plans, like the UAPP, is to provide members with a guaranteed income in retirement, at a reasonable cost. The UAPP continues to face many challenges in fulfilling this goal. The low interest rate environment, reduced membership growth, and improvements in life expectancy will ensure the Plan's liabilities continue to grow at a steady pace.

The UAPP, like most other defined benefit pension plans, relies heavily on investment returns to defray the costs of the benefits. Both the funding position and the future contribution requirements are significantly impacted by the investment returns earned each year. Given that the assumed discount rate of 6.25% used by the Plan is substantially higher than the current long bond rates, the Plan has to take market risks with an expectation of higher returns relative to bonds in order to keep the long-term costs of the Plan reasonable. The UAPP holds a highly-diversified portfolio of equities, bonds and other assets such as real estate, infrastructure and timberlands in an attempt to generate optimal long-term returns within prudent risk levels. The equity component is further diversified across world markets. The implementation during 2013 of the multi-manager investment approach provides additional opportunities for diversification. The performance of the investment managers will continually be reviewed to ensure they continue to meet the requirements of the Plan. While the UAPP invests for the long term, volatility in the short term has a direct impact on the funding position and contribution requirements of the Plan.

The Board will continue to monitor both the investments and the funding position of the Plan in order to review the Plan's risk tolerance and balance the investment return opportunities with the level of market risks assumed. Opportunities to further diversify the investment approach and add incremental return without significantly increasing risk levels will continue to be sought, to assist in securing the benefits for the members.

# MANAGEMENT DISCUSSION AND ANALYSIS

## INVESTMENT REPORT

### INVESTMENT BELIEFS AND APPROACH

As discussed in previous Annual Reports, the development of the UAPP's strategic, long-term investment policy is based on several key beliefs.

- 1.** There is a relationship between risk and return. Achieving higher returns generally requires exposure to higher risks. The relationship between risk and return are more predictable over the longer term. Equities will, in the long term, provide greater returns than fixed income investments although with greater short-term volatility. The long term strategic asset allocation decision is the most important factor in determining investment risk and return.
- 2.** In establishing the asset mix policy of the Fund, the liabilities of the Plan should be taken into consideration. As an example, inflation has a direct impact on the UAPP's liabilities. Investments in inflation-sensitive assets like Real Return Bonds, Real Estate and Infrastructure are a way of managing the inflation risk.
- 3.** Diversification within and across asset classes can reduce risk over the long term without compromising expected returns and is a prerequisite to prudent fund management. Exposure to foreign currencies as a result of moderate levels of foreign investments can provide diversification benefits. Currency hedging should only be undertaken on an opportunistic basis.
- 4.** Over the long term, longer term bonds will outperform cash and shorter term bonds. Longer term bonds will outperform during periods of stable and declining interest rates, but will underperform during periods of significantly rising interest rates. Relative to shorter term bonds, longer term bonds generally provide better matching with the Plan's liabilities thus reducing the volatility of the required contributions and funded status.

## MANAGEMENT DISCUSSION AND ANALYSIS

- 5.** Active management will serve the Plan better than passive management in most asset classes. Markets are efficient to varying degrees, and short term deviations from long term fundamentals can occur. Therefore, there is an expectation for skilled managers to add value and/or reduce risk relative to passive exposure to the market. The opportunity for value added and/or reduced risk from active management should be weighed against the incremental cost relative to passive market exposure.
- 6.** Over the long term, but not necessarily in most years, investment in a value stock portfolio will tend to produce performance similar to or better than investment in a growth stock portfolio, and the performance of the value stock portfolio will be less volatile.
- 7.** A specialist manager structure offers a number of benefits over a balanced manager structure including the potential to hire the best manager for each asset class, greater flexibility to replace underperforming funds, and the ability to make use of passive investment funds for appropriate asset classes.
- 8.** With respect to foreign equities, global mandates are preferred over combinations of U.S. and International equity mandates because global mandates allow managers more flexibility and greater opportunities to add value.
- 9.** Market timing is not seen as an effective strategy for generating consistent returns. Therefore, a rebalancing protocol around the strategic asset mix is seen as the most effective way of ensuring that portfolio risk does not drift materially above or below the intended risk level.

# MANAGEMENT DISCUSSION AND ANALYSIS

- 10.** Investment managers should be monitored regularly for changes in ownership, investment process and philosophy, key investment personnel, and for investment returns against relevant peer groups and indices. Managers may be terminated on the basis of qualitative issues even if investment returns are acceptable. Investment returns should be evaluated over at least a 4-year period. Emphasis should be placed, not only on the level of returns, but also on the amount of risk taken to achieve those returns. Tracking error should be assessed in terms of the impact on volatility of the Plan's required contributions and funded status.

These beliefs require an investment approach that seeks to obtain higher long-term returns while containing the volatility in short-term results. This goal underlies the UAPP's investment policy and risk management measures.

## INVESTMENT POLICY

The UAPP's investment policies are based on the investment beliefs and expectations of the Board and are set out in the Statement of Investment Policies & Goals (SIP&G). The asset mix policy, or the Fund's long-term allocation to the different asset classes, is a key component of the SIP&G. It is through the asset allocation decision that the Board diversifies its investments across asset classes and attempts a balance between the objective of higher long-term returns and the need to reduce shorter-term volatility in those returns.

The Board, through its Investment Committee, monitors on an ongoing basis the performance of the Fund and the investment managers, the funded status of the Plan, capital markets and economic developments and expectations. Based on this monitoring, the Board may make adjustments to the asset mix and take other appropriate measures to control risk or improve returns. The Board reviews the SIP&G at least once a year.

The table below compares the Board's current Long-term Policy Asset Mix benchmark and ranges to the actual asset mix of investments for 2013 and 2012. A copy of the full text of the UAPP's SIP&G is available on the UAPP website [www.uapp.ca](http://www.uapp.ca) under Publications.

# MANAGEMENT DISCUSSION AND ANALYSIS

Long-term Policy Asset Mix  
(percentage of Fund)

Asset Class	2013				2012			
	Benchmark	Min	Max	Actual	Benchmark	Min	Max	Actual
	%			%	%			%
<b>Money market and fixed income</b>								
Cash & short term	0.0	0.0	1.0	0.5	0.0	0.0	1.0	0.5
Universe bonds	10.0	8.0	12.0	8.8	10.5	8.0	12.0	11.4
Private mortgages	5.0	3.0	7.0	3.0	-	-	-	-
Long duration bonds	10.0	8.0	12.0	9.9	12.5	10.0	15.0	12.0
Real return bonds	7.0	5.0	9.0	6.5	7.0	5.0	9.0	6.7
	32.0	26.0	38.0	28.7	30.0	25.0	35.0	30.6
<b>Public equities</b>								
Canadian	17.5	15.0	20.0	17.7	17.5	15.0	20.0	17.4
Foreign								
Global	33.5	30.0	35.0	32.9	33.5	30.0	35.0	30.2
Emerging markets	4.0	0.0	5.0	8.8	4.0	0.0	5.0	9.2
	55.0	50.0	60.0	59.4	55.0	50.0	60.0	56.8
<b>Alternative investments</b>								
Real estate	8.0	5.0	11.0	7.1	8.0	5.0	11.0	7.5
Infrastructure and private debt & loans	4.0	1.0	6.0	3.9	4.0	1.0	6.0	4.3
Hedge funds	n/a	n/a	n/a	n/a	2.0	0.0	5.0	0.0
Timberland	1.0	0.0	1.0	0.9	1.0	0.0	1.0	0.8
	13.0	6.5	17.0	11.9	15.0	7.5	20.0	12.6
<b>Total</b>	100.0			100.0	100.0			100.0

As can be seen from the table, the Plan holds a highly-diversified portfolio of investments in fixed income securities, Canadian and foreign equities and inflation sensitive and alternative investments. This includes participation in both passively and actively managed pooled investment funds. The Plan invests in units of pooled investment funds which are created and managed by investment managers. Pooled fund units have a market-based unit value that is used to allocate income to participants in the pool and to value purchases and sales of units. There are thousands of securities held in the various pooled investment funds. These securities may be bought and sold on a daily basis. The Plan has a broad global diversification across publicly traded equities and fixed income which increases opportunities to add value. In addition, the Fund's investments in real estate and infrastructure provide better cash yields that grow with inflation.

# MANAGEMENT DISCUSSION AND ANALYSIS

The Plan's money market and fixed income portfolio is exposed to credit risk and interest rate risk through bond and mortgage holdings and derivative products. Based on the view that currencies are a zero-sum game in the long-run, currency exposure to foreign equity markets is largely unhedged. Up to 25% of the Plan's foreign currency exposure can be hedged. Therefore, unless currency exposure is hedged, the returns from foreign markets will be impacted by changes in the exchange rate of the Canadian dollar.

## INVESTMENT POLICY IMPLEMENTATION

Commencing in August 2013, UAPP engaged two additional investment managers, Beutel, Goodman & Company Ltd. and Fiera Capital Corporation, to manage its Canadian long bond and universe bond portfolios totaling 18.7% of total investments. The majority of UAPP's investments totaling 81.3% are managed by AIMCo. AIMCo manages UAPP's public equity investments, alternative investments, private mortgages and real return bonds.

Beutel, Goodman & Company is a privately-owned Canadian company founded in 1967, with over \$30 billion in assets under management. Fiera Capital Corporation was established in 2003 and has \$77.5 billion in assets under management. AIMCo is a provincial corporation, established on January 1, 2008, reporting to the Minister Treasury Board and Finance. AIMCo administers investment portfolios of approximately \$75 billion on behalf of other public sector pension plans and the Government of Alberta. These investment managers invest the UAPP's assets subject to the investment policies set out in the Board's SIP&G. The investment managers manage the majority of the Plan's investments internally through pooled investment funds.

To mitigate implementation risk, clearly defined benchmarks, guidelines, standards and controls have been established at both the total Fund and asset class levels. Investment managers have the flexibility to act within the prescribed limits in order to add value over the policy. Both compliance with the SIP&G and performance against the specified benchmarks are monitored formally on a quarterly basis. The Board has retained an independent asset consultant, Aon Hewitt, to provide evaluation of investment managers on a regular basis.



# MANAGEMENT DISCUSSION AND ANALYSIS

## PROXY VOTING

Proxy voting is an important tool in corporate governance. The Board delegates responsibility for proxy voting to the investment managers. Pension funds are to be managed in the best interests of beneficiaries. This principle governs the voting of proxies. The UAPP Board considers proxy voting to be a key element of responsible investing and that thoughtful voting is a contributor to optimizing the long term value of investments.

## RISK MANAGEMENT SYSTEM

The Board recognizes that in order to meet the return objectives of the Plan, the UAPP must take on risk inherent in the assets in which the UAPP invests. The UAPP invests in a diverse set of asset types to help improve the likelihood of achieving our desired results for a given level of risk.

Investment risk management is a key focus for the Board and the investment managers. Investment managers seek to measure and monitor both historic and possible future risks, allocating risk as a scarce resource to the most promising investment opportunities. Investment managers utilize a quantitative investment risk system designed to operate across all asset classes and a variety of risk types such as credit risk, price risk, interest rate risk, currency risk and liquidity risk.

The UAPP monitors the risk associated with the Plan's liabilities in relation to the assets of the Plan.

## EVALUATING INVESTMENT PERFORMANCE

A key assumption in calculating the Plan's liabilities is the long-term real rate of return, i.e. the return net of inflation. The estimated value of the Plan's liabilities is highly sensitive to this assumption. Over the last several valuations, the Plan's actuary has used a long-term real return rate of 4.0% in estimating the liabilities and, therefore, this number is the long-term investment return target for the Plan.

The Plan's investment performance can also be assessed in terms of whether investment managers are adding value above their respective benchmarks. In this case, the performance of the Plan is measured against a policy benchmark return calculated using the Plan's policy allocation to each asset class and the market index return for the specific class.

# MANAGEMENT DISCUSSION AND ANALYSIS

While investment performance can be compared to other funds, this comparison is meaningful only to the extent that the funds being compared have similar investment objectives, risks and constraints and policies. A fund that is 100% invested in fixed income, for example, does not provide a valid comparison to a fund that is 100% invested in equities.

## 2013 INVESTMENT PERFORMANCE

**Investments: \$3.3 billion**

(2012: \$2.9 billion)

**Return on Investments: 13.1%**

(2012: 11.8%)

**Investment Income: \$402 million**

(2012: \$318 million)

**Investment Expense: \$11.8 million**

(2012: \$9.2 million)

At December 31, 2013, the fair value of the Plan's investments totaled \$3.339 billion, up from \$2.933 billion at the end of the previous year.

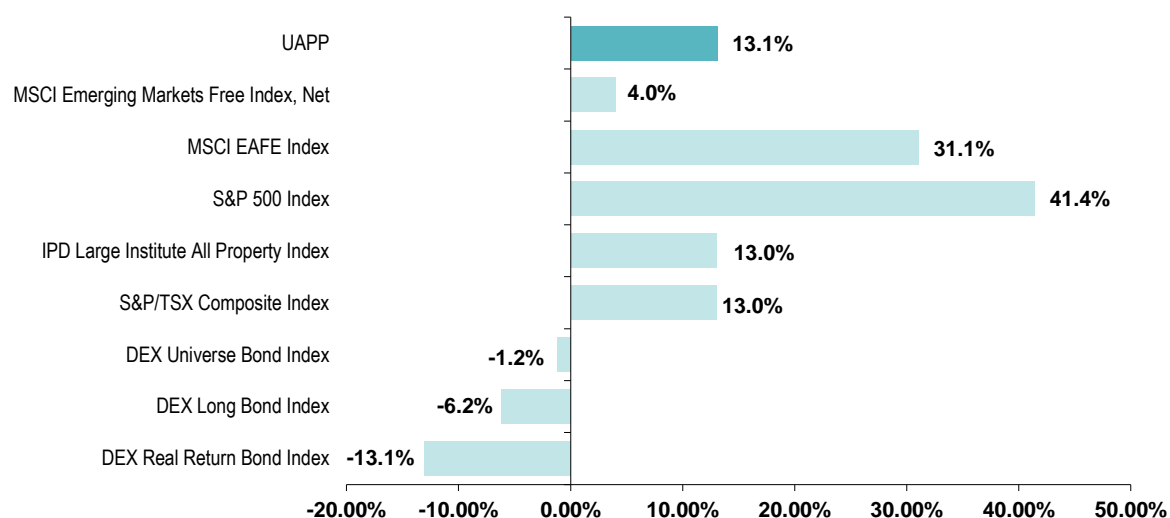
Overall, UAPP finished the 2013 year earning an overall investment return of 13.1%, after expenses, compared to 11.8% in 2012.

The year started out strong with UAPP earning 4.0% on its investments in the 1<sup>st</sup> quarter. The 2<sup>nd</sup> quarter saw markets contract and UAPP's investments declined in value by 1.0%. Markets improved in the 3<sup>rd</sup> quarter with UAPP earning 3.1% on its investments. Markets performed well in the 4<sup>th</sup> quarter with UAPP gaining 6.6% on its investments.

# MANAGEMENT DISCUSSION AND ANALYSIS

The following chart summarizes the market returns in Canadian dollars from various indices around the world and the overall return of UAPP for 2013.

**Returns for Major Markets and the UAPP**



Outside of Canada, the Morgan Stanley Capital International (MSCI) Emerging Markets Free Index gained 4.0% in 2013 in Canadian dollars compared to a gain of 15.6% in 2012.

The MSCI EAFE Index covering Europe, Australasia and the Far East, gained 31.1% in Canadian dollars compared to a loss of 14.8% in 2012. Approximately 21% (2012: 21%) of the Plan's investments is denominated in currencies other than the Canadian and U.S. dollar including the Euro which comprises 4% (2012: 4%) of the Plan's investments. At December 31, 2013, one Euro was worth \$1.47 Canadian compared to \$1.31 Canadian at the beginning of the year.

The Standard & Poor's (S&P) 500 Index, which tracks the performance of the top 500 American companies, gained 41.4% in Canadian dollars (32.3% in U.S. dollars) compared to 13.5% in Canadian dollars (16.0% in U.S. dollars) in 2012.

# MANAGEMENT DISCUSSION AND ANALYSIS

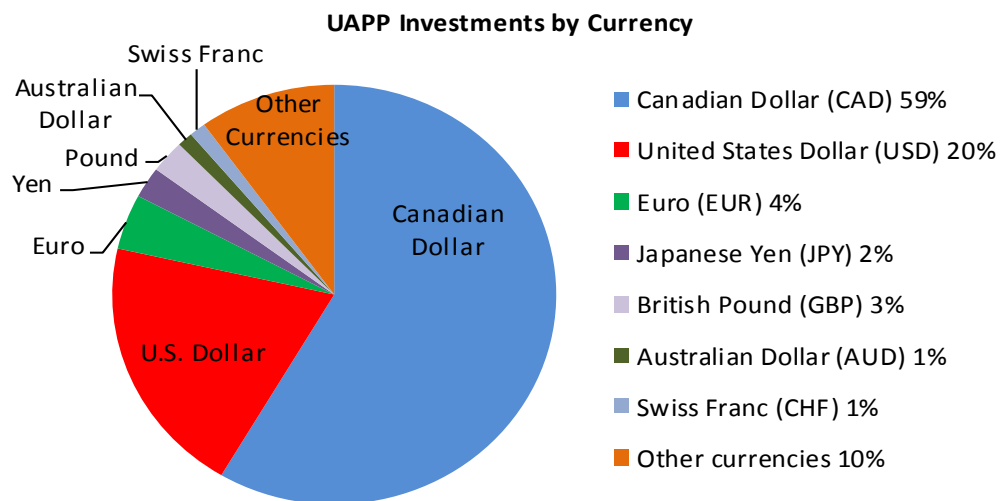
Approximately 20% (2012: 17%) of the Plan's investments are denominated in U.S. dollars. The weaker Canadian dollar in relation to U.S. dollar had a positive impact on the value of U.S. dollar investments held by the Plan. At December 31, 2013, one U.S. dollar was worth \$1.06 Canadian compared to \$1.00 Canadian at the beginning of the year. As a result, U.S. dollar investments were worth more when translated into Canadian dollars at December 31, 2013 resulting in higher returns in Canadian dollars.

The Canadian real estate market represented by the IPD Large Institutional All Property Index increased by an estimated 13.0% in 2013 compared to an increase of 13.8% in 2012.

The Canadian stock market represented by the S&P Toronto Stock Exchange (TSX) Composite Index gained 13.0% in 2013 compared to a GAIN of 7.2% in 2012.

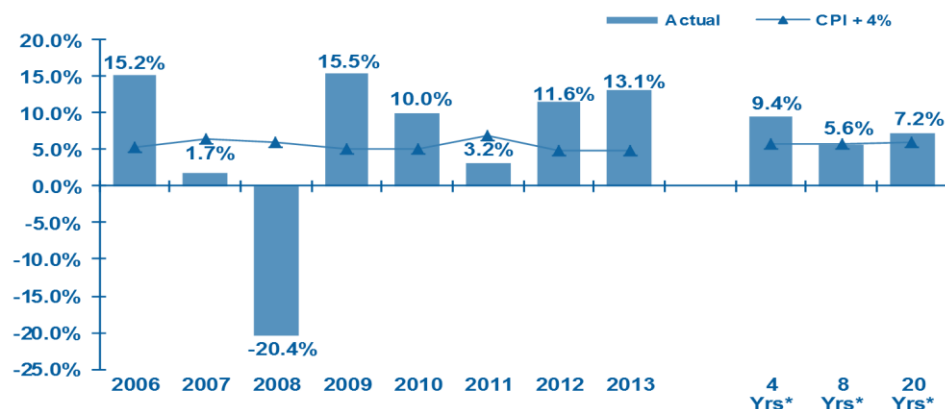
The DEX Long Bond Index and the DEX Real Return Bond Index posted losses of 6.2% and 13.1% respectively compared to gains of 5.2% and 2.9% in 2012.

The table to the right shows UAPP's exposure to foreign currencies and its investments in Canadian dollars.



# MANAGEMENT DISCUSSION AND ANALYSIS

Actual Return vs. Required Long-Term Return Objective



The chart compares the Plan's actual return over one year and annualized returns over four, eight and twenty years against the Plan's required long-term investment return (i.e. asset real rate of return of 4.0% plus inflation as measured by the Consumer Price Index (CPI)).

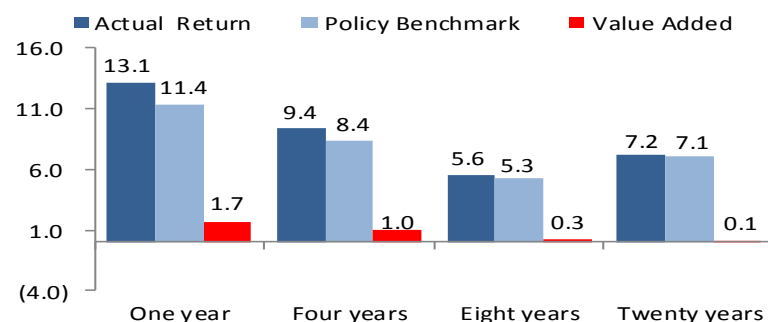
The Plan's annualized returns over four, eight and twenty years are 9.4%, 5.6% and 7.2% respectively. Over four and twenty

years the Plan's actual investment return is greater than the Plan's long-term expected return of CPI plus 4.0%. Over the eight years, the Plan's investment return was slightly less than the long-term expected return.

## Actual versus Policy Return

According to the Plan's SIP&G, the Board has set a performance goal based on the expectation that active management will add 0.5% per annum over a four-year period beyond the passively managed market-based policy benchmark.

Actual versus Policy Return (in percent)



# MANAGEMENT DISCUSSION AND ANALYSIS

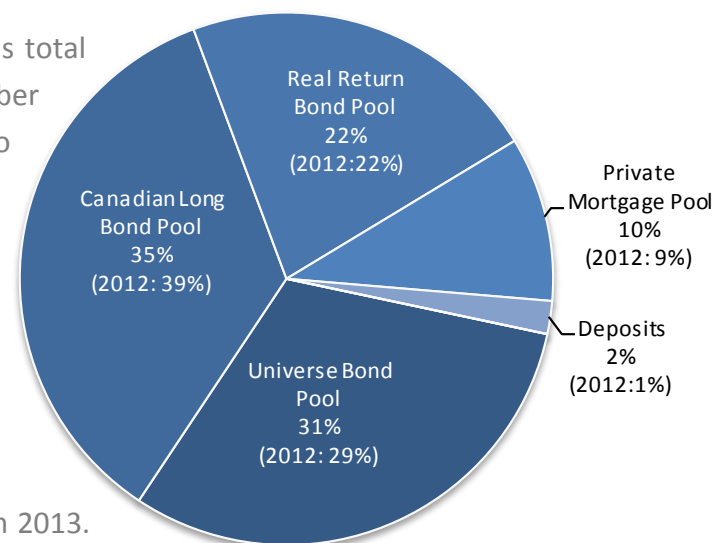
Over the past four years, the value added by active management decisions was 1.0% per annum.

## PERFORMANCE BY ASSET CLASS

### FIXED INCOME INVESTMENTS

At December 31, 2013, fixed income holdings comprise 28.7% of the Plan's total investments or \$957.8 million compared to 30.6% or \$898 million at December 31, 2012. In August 2013, UAPP engaged two new investment managers to manage 66% of the fixed income portfolio which includes the Canadian long bond portfolio and the universe bond portfolio. AIMCo manages the remaining 34% of the fixed income portfolio which includes private mortgages, real return bonds and deposits in the Consolidated Cash Investment Trust Fund.

**Summary of Fixed Income Holdings  
(by pooled investment fund)**



The table below shows the returns from the Plan's fixed income portfolio in 2013.

Overall, total fixed income securities lost 5.0% in 2013, 0.6% better than the combined loss of 5.6%.

Total Fixed Income	Actual Return %	Benchmark Index Combined Benchmark*	Net Value Added %
<b>One year</b>	<b>(5.0)</b>	<b>(5.6)</b>	<b>0.6</b>
<b>Four year</b>	<b>6.1</b>	<b>5.7</b>	<b>0.4</b>

\* The combined benchmark includes the DEX Long Bond Index, DEX Real Return Bond Index DEX Universe Bond Index and DEX 91-Day T-Bill Index.



# MANAGEMENT DISCUSSION AND ANALYSIS

## CANADIAN EQUITIES

At December 31, 2013, Canadian public equities represented 17.7% of the Plan's total investments or \$591.2 million, up from 17.4% or \$510 million at the end of the previous year. The Plan's Canadian equity portfolio is invested in AIMCo's Canadian Equities Master Pool. The Pool includes directly held investments in Canadian public companies and structured equity products which replicate Canadian public equity investments using index swaps and futures contracts linked to the Standard and Poor's Toronto Stock Exchange (S&P/TSX). Directly held Interest bearing securities support the notional value of index swaps and futures contracts.

### Canadian Equities Master Pool Industry Exposure Relative to Benchmark December 31, 2013

Sector	Benchmark TSX Composite Index	Over (Under) Benchmark
	%	%
Consumer discretionary	5	1
Consumer staples	3	2
Energy	25	-
Financials	35	-
Health Care	3	(1)
Industrials	8	-
Information technology	2	-
Materials	12	(1)
Telecommunications	5	1
Utilities	2	1
	<u>100</u>	

*In 2013, the Canadian equity portfolio gained 15.5%, 2.5% greater than the benchmark gain of 13.0%.*

	Actual Return	Benchmark Index S&P/TSX Composite	Net Value Added
Total Canadian Equities	%	%	%
<b>One year</b>	<b>15.5</b>	<b>13.0</b>	<b>2.5</b>
<b>Four year</b>	<b>9.0</b>	<b>6.8</b>	<b>2.2</b>

# MANAGEMENT DISCUSSION AND ANALYSIS

## FOREIGN PUBLIC EQUITIES

At December 31, 2013, foreign public equities comprised 41.7% of the Plan's total investments or \$1,392 million up from 39.4% or \$1,156 million the previous year. UAPP's global public equity portfolio consists of units owned in AIMCo's Global Equities Master Pool (79%), Emerging Markets Equity Pool (19%) and other tactical allocations (2%).

In 2013, the foreign public equity portfolio gained 28.7%, 0.6% better than the benchmark gain of 28.1%.

	Actual Return	Benchmark Index Combined Benchmark*	Net Value Added
Total Foreign Equities	%	%	%
<b>One year</b>	<b>28.7</b>	<b>28.1</b>	<b>0.6</b>
<b>Four year</b>	<b>10.8</b>	<b>10.2</b>	<b>0.6</b>

\* The combined benchmark includes the MSCI All Country World Index and the MSCI Emerging Markets Index.

## GLOBAL EQUITIES MASTER POOL

The Plan's global equity portfolio is invested in units of AIMCo's Global Equities Master Pool. The Pool's investment in global developed equity markets consists of countries whose economies and capital markets are well established and mature. The Pool's global developed portfolio includes directly held investments in public companies in the U.S., Europe, Australasia, and the Far East (EAFE) with smaller allocations to emerging markets and Canada. The Pool replicates exposure to foreign equity markets by investing in structured equity products using index swaps and futures contracts. Directly held interest bearing securities support the notional value of index swaps and futures contracts.

# MANAGEMENT DISCUSSION AND ANALYSIS

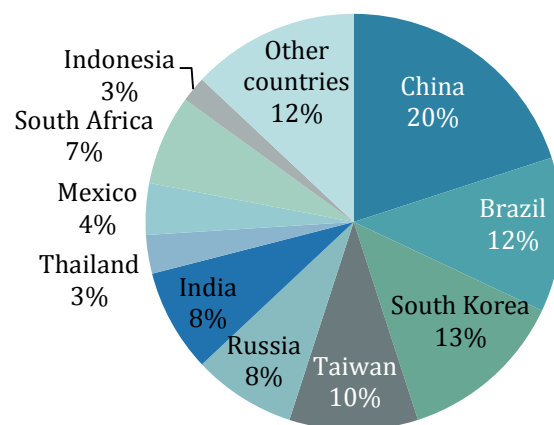
The Plan's global equity portfolio gained 35.5% in 2013 compared to 31.2% from MSCI All Country World Index.

Global Equities Master Pool		Benchmark MSCI
Industry Exposure Relative to Benchmark		All Country World
December 31, 2013		Total Return Index
Sector	%	Over (Under) Benchmark
Consumer discretionary	12	1
Consumer staples	10	-1
Energy	10	-2
Financials	21	1
Health Care	10	2
Industrials	11	1
Information technology	13	-
Materials	6	-
Telecommunications	4	-1
Utilities	3	-1
	<u>100</u>	

Global Equities Master Pool		Benchmark MSCI
Relative Regional Exposure to Benchmark		All Country World
December 31, 2013		Total Return Index
Region	%	Over (Under) Benchmark
United States	49	7
Europe, Australasia & the Far East	36	5
Emerging markets	11	-10
Canada	4	-1
	<u>100</u>	

# MANAGEMENT DISCUSSION AND ANALYSIS

Top Ten Countries in Emerging Markets Pool



## EMERGING MARKETS POOL

Approximately 8.8% of UAPP's foreign equity portfolio includes an investment in AIMCo's Emerging Market Pool which holds actively managed investments in economies which are in the early stages of development and whose market has sufficient size and liquidity and is receptive to foreign investment.

The Plan's emerging markets portfolio gained 5.4% in 2013, 1.4% more than the MSCI Emerging Markets Index gain of 4.0%.

## ALTERNATIVE INVESTMENTS

Alternative investments totaling \$399 million or 11.9% (2012: \$369 million or 12.6%) of the Plan's total portfolio includes real estate, infrastructure, timberland investments and hedge funds. In 2013, the Plan's actual gain from alternative investments was 11.0%, 0.6% more than combined benchmark gain of 10.4%. Over four years, the annualized return was 12.9%, 2.4% greater than the combined benchmark gain of 10.5%.

## REAL ESTATE

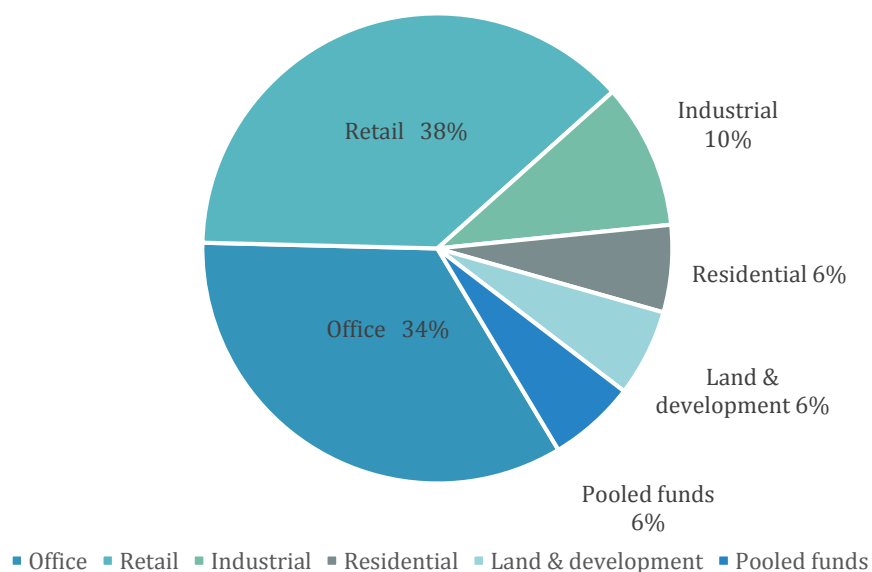
At December 31, 2013, real estate investments comprised 7.1% of the Plan's total investments or \$238.4 million compared to 7.5% or \$221 million the previous year. Real estate investments provide diversification, high cash flow and are expected to provide protection from inflation. The UAPP invests in AIMCo's Private Real Estate Pool which includes a mix of office, retail, industrial and residential properties located in Ontario, Alberta, Quebec and British Columbia.

# MANAGEMENT DISCUSSION AND ANALYSIS

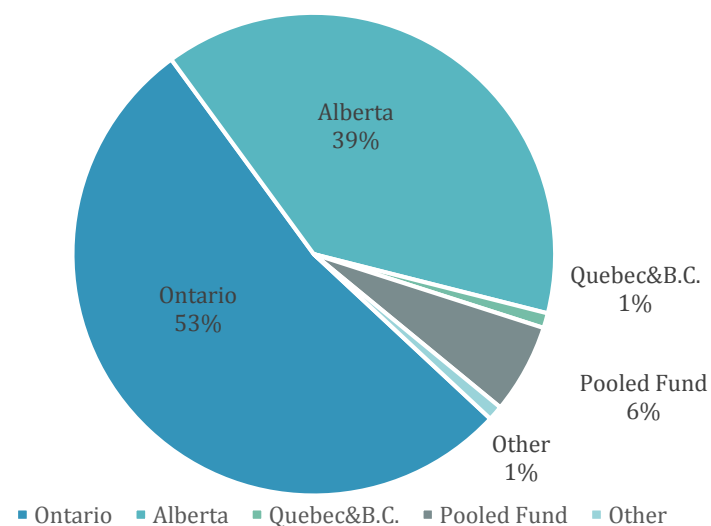
The Plan's actual gain from real estate investments in 2013 was 12.7%, 0.3% less than the estimated benchmark gain of 13.0%.

	Actual Return %	Benchmark Index IPD Large Institutional All Property Index %	Net Value Added (Lost) %
Real Estate			
<b>One year</b>	<b>12.7</b>	<b>13.0</b>	<b>(0.3)</b>
<b>Four year</b>	<b>16.3</b>	<b>13.4</b>	<b>2.9</b>

Private Real Estate Pool  
by Sector



Private Real Estate Pool  
by Province



# MANAGEMENT DISCUSSION AND ANALYSIS

## PRIVATE INCOME (INFRASTRUCTURE AND PRIVATE DEBT AND LOAN)

At December 31, 2013, the UAPP's investment in AIMCo's Infrastructure and Private Debt and Loan Pools comprised 3.9% of total Plan investments or \$130 million compared to 4.3% or \$127 million at the end of the previous year. The investment in infrastructure pools, totaling \$92 million (2012: \$88 million), includes projects that provide attractive returns and include projects in transportation (e.g. toll roads, airports, ports and rails), power (e.g. contracted power generation and power transmission pipelines) and utilities (e.g. water, waste water and natural gas networks). The investment in the Private Debt and Loan Pool, totaling \$38 million (2012: \$39 million), include investments in debt instruments such as senior secured debt and convertible debt which are generally unrated or non-investment grade

In 2013, investments in infrastructure and private debt and loan gained 4.7%, 2.2% less than the benchmark gain of 6.9%.

Infrastructure and private debt and loan	Actual Return %	Benchmark Index	Net Value Lost %
		Consumer Price Index (CPI) Plus 6% %	
<b>One year</b>	<b>4.7</b>	<b>6.9</b>	<b>(2.2)</b>
<b>Four year</b>	<b>6.9</b>	<b>7.7</b>	<b>(0.8)</b>



# MANAGEMENT DISCUSSION AND ANALYSIS

## TIMBERLAND

At December 31, 2013, the UAPP's investment in AIMCo's Timberland Pool comprised 0.9% of total Plan investments or \$31 million compared to 0.8% or \$22 million at the end of the previous year. The Timberland investment includes forestry land in Canada and globally. The investment in Canada represents an interest in a limited partnership which holds forestry land and land held for higher and better use in the Province of British Columbia. The foreign investment primarily includes forestry and agricultural land in Australia and New Zealand.

The Timberland investment gained 28.4% in 2013, 23.5% more than the benchmark gain of 4.9%.

	Actual Return %	Benchmark Index Consumer Price Index (CPI) Plus 4% %	Net Value Added %
Timberland			
One year	28.4	4.9	23.5
Four year	13.2	5.7	7.5

# MANAGEMENT DISCUSSION AND ANALYSIS

Table of Investment Returns <sup>(A)</sup>

	December 31, 2013		Annual Returns				
	Investments	Asset Mix	2013	2012	2011	2010	Annualized
	(in millions)	(%)	(%)	(restated b) (%)	(%)	(%)	4 yr (%)
<b>Total Fund</b>	<b>\$ 3,339.3</b>	<b>100.0%</b>	<b>13.1</b>	<b>11.8</b>	<b>3.2</b>	<b>10.0</b>	<b>9.4</b>
Policy Return			11.4	9.4	2.6	10.4	8.4
Value Added (Lost) from Active Management			1.7	2.4	0.6	(0.4)	1.0
Consumer Price Index (C)			0.9	0.8	2.9	2.0	1.7
<b>Total Fixed Income</b>	<b>\$ 957.6</b>	<b>28.7%</b>	<b>(5.0)</b>	<b>5.3</b>	<b>14.1</b>	<b>11.5</b>	<b>6.1</b>
Combined Benchmarks			(5.6)	4.1	15.3	10.7	5.7
Short-term fixed income	16.7	0.5%	1.2	1.2	1.2	1.2	1.2
DEX 91-Day T-Bill Index			1.0	1.0	1.0	0.5	0.9
Universe Bonds	293.4	8.8%	0.4	7.5	8.2	9.4	6.4
Private Mortgages	100.9	3.0%	0.4	4.5	10.9	10.2	6.4
DEX Universe Bond Index			(1.2)	3.6	9.7	6.7	4.6
Long Duration Bonds	331.6	9.9%	(6.3)	5.3	16.8	13.5	7.0
DEX Long Bond Index			(6.2)	5.2	18.1	12.5	7.0
Real Return Bonds	215.0	6.5%	(12.5)	3.1	18.1	11.0	4.3
DEX Real Return Bond Index			(13.1)	2.9	18.3	11.1	4.1
<b>Total Public Equities</b>	<b>\$ 1,982.7</b>	<b>59.4%</b>	<b>24.5</b>	<b>15.1</b>	<b>(5.9)</b>	<b>9.7</b>	<b>10.3</b>
Combined Benchmark			23.2	11.8	(6.4)	10.1	9.1
Total Canadian Equities	591.2	17.7%	15.5	12.2	(7.9)	18.0	9.0
S&P/TSX Composite Capped			13.0	7.2	(8.7)	17.6	6.8
Foreign Equities			28.7	16.3	(5.2)	6.4	10.8
Global Equities	1,097.1	32.9%	35.5	16.1	(2.9)	5.6	12.7
Emerging Markets	294.4	8.8%	5.4	17.0	(18.7)	14.4	3.5
MSCI ACWI Index and MSCI Emerging Markets Index			28.1	13.8	(5.6)	7.1	10.2
<b>Alternative Investments</b>	<b>\$ 399.0</b>	<b>11.9%</b>	<b>11.0</b>	<b>12.8</b>	<b>17.7</b>	<b>10.2</b>	<b>12.9</b>
Combined Benchmark			10.4	11.3	10.7	9.6	10.5
Real Estate	238.4	7.1%	12.7	17.3	23.2	12.4	16.3
IPD Large Institutional All Property Index (B)			13.0	13.8	15.9	11.2	13.4
Infrastructure and Private Debt and Loan (A)(B)	129.9	3.9%	4.7	7.9	10.5	4.6	6.9
CPI plus 6%			6.9	6.8	8.9	8.0	7.7
Timberland (A)(B)	30.7	0.9%	28.4	(0.4)	20.0	7.2	13.2
CPI plus 4%			4.9	4.8	6.9	6.0	5.7
Hedge Funds	-	-	n/a	n/a	10.1	12.6	n/a
HFRX Global Investable Index			n/a	n/a	(8.4)	5.2	n/a

(A) Changes to returns resulting from revaluation of investments at December 31, 2013 will be reflected in the next reporting period.

(B) The overall actual return for 2012 has been increased from 11.6% to 11.8% resulting from changes to estimated returns for private income (5.2% to 7.9%) and timberland (-2.5% to -0.4%). The overall policy return for 2012 changed from 9.3% to 9.4% resulting from a change in the real estate benchmark from 12.6% to 13.8%.

(C) The Consumer Price Index (CPI) is reported on a one month lagged basis.

# MANAGEMENT DISCUSSION AND ANALYSIS

## ADMINISTRATION REPORT

The Board is responsible for the operation and administration of the UAPP, including the collection of member data and contributions, the calculation and payment of pensions and related benefits, and the communication of pension information to members, pensioners and employers. The 2013 results in these areas are as follows.

### ACTIVE MEMBERSHIP & CONTRIBUTIONS

Active membership in the UAPP decreased 1.0% in 2013 to 7,652 members at December 31, 2013 from 7,727 at the end of 2012. Over the last decade, active membership in the UAPP has grown on average at a rate of 3.0%. As a result of higher salaries and higher contribution rates in effect for a full year, total contributions received from employers, employees and the Province of Alberta grew by 4.7%, to \$221.9 million in 2013 from \$212.0 million in 2012.

### PENSIONERS & BENEFIT PAYMENTS

In 2013, the number of retired members and surviving spouses of pensioners receiving a pension from the UAPP increased by 5.9% to 4,434 from 4,185 in 2012. During the year, the total payments to pensioners rose by 5.9% (2012: 6.0%), to \$184.2 million from \$173.9 million in 2012. Pensioners were granted a cost-of-living increase of 0.96% effective January 1, 2013. The most popular pension choice among the new retirees with a spouse is a Joint Life pension.

### TERMINATED AND DEFERRED MEMBERS

Termination benefits amounting to \$21.2 million (2012: \$20.9 million) were paid during the year to or on behalf of former members of the UAPP. The number of terminated members who continue to have funds in the Plan increased to 1,672 at the end of 2013 from 1,532 in 2012.

# MANAGEMENT DISCUSSION AND ANALYSIS

## PLAN EXPENSES

In 2013, the UAPP's general plan expenses amounted to \$1.7 million (\$128 per member) compared to \$1.8 million (\$134 per member) in 2012.

Participation	2013	2012
Active Members	7,652	7,727
Deferred Members*	1,672	1,532
Pensioners	4,434	4,185
<b>TOTAL</b>	<b>13,758</b>	<b>13,444</b>

New Pensioners	2013	2012
Normal Retirements	94	89
Early Retirements	174	99
Pensions to Surviving Spouses	8	8
<b>TOTAL</b>	<b>276</b>	<b>196</b>

\*includes non-vested, terminated members

## New Pensioner Retirement Choices

Percentage Electing Option	2013	2012
Single life – with or without guarantee	22%	30%
Joint life – 2/3 spouse, no guarantee	19	23
Joint life – 2/3 spouse, 10-year guarantee	19	15
Joint life – 100% spouse, no guarantee	14	14
Joint life – 100% spouse, 10-year guarantee	26	18
<b>TOTAL</b>	<b>100%</b>	<b>100%</b>

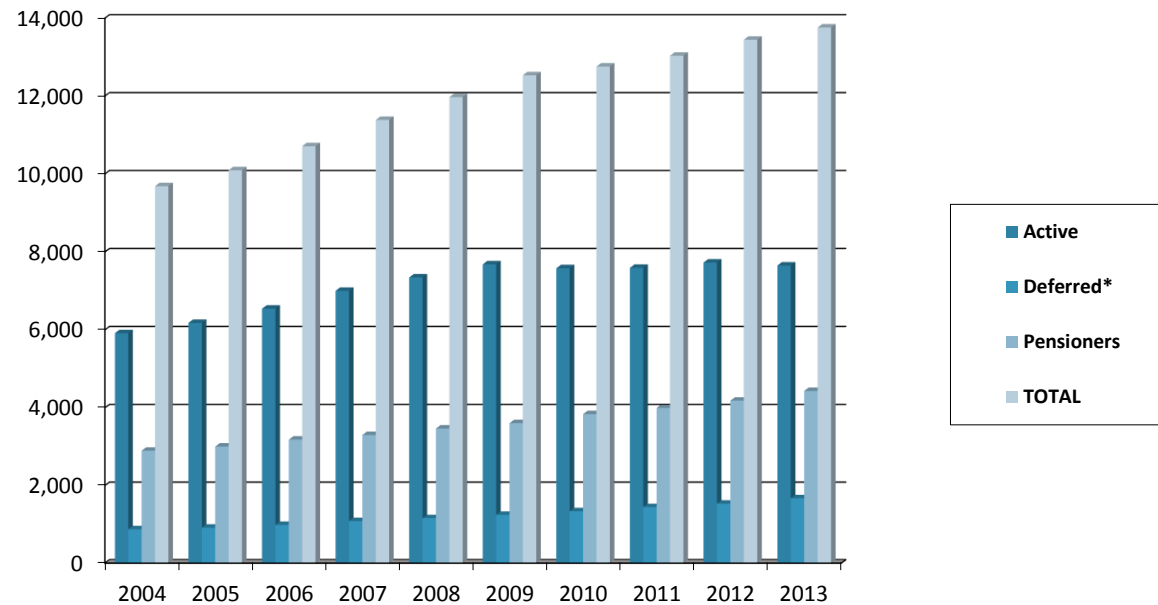
# MANAGEMENT DISCUSSION AND ANALYSIS

## Monthly Payment Distribution As at December 31, 2013

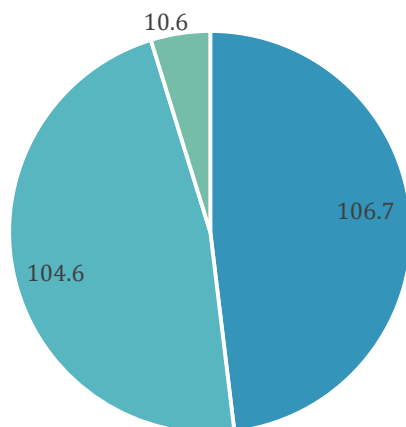
Dollar Value (\$) Per Month	Member Pensions	Spouse Pensions	Total
1 to 999	625	23	648
1,000 to 1,999	537	39	576
2,000 to 2,999	598	33	631
3,000 to 3,999	666	22	688
4,000 to 4,999	735	11	746
5,000 to 5,999	551	5	556
6,000 to 6,999	330	7	337
7,000 and over	250	2	252
TOTAL	4,292	142	4,434

# MANAGEMENT DISCUSSION AND ANALYSIS

Growth of Members and Pensioners

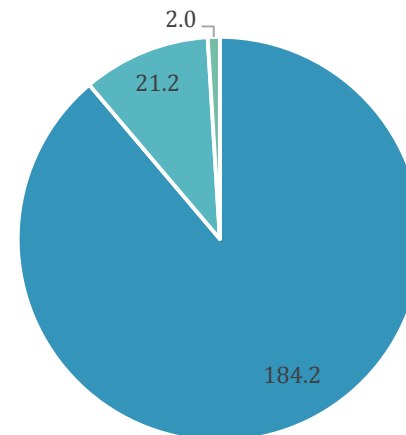


Contributions (\$ millions)



■ Members\* ■ Employers ■ Province of Alberta

Payments (\$ millions)



■ Pension Benefits ■ Termination Benefits to Members ■ Administration Expenses

\*members' contributions include optional service contributions

# MANAGEMENT DISCUSSION AND ANALYSIS

## SERVICE TO MEMBERS

The UAPP's goal is to provide high-quality pension services in a timely manner to members. To assess and promote quality service, service standards have been established and the delivery of services against those standards is closely monitored.

Responsibilities	Service Level Standards	2013 Results
Time to answer calls	80% of calls answered within 20 seconds with a call abandonment rate below 5%	99.0% of calls answered within 20 seconds with a call abandonment rate of 0%
Escalated calls and voice mails	Answered within 1 business day	100% of calls answered within 1 business day
Emails	Answered within 2 business days	100% of emails answered within 2 business days
Written enquiries	Answered within 5 business days	100% of written enquiries answered within 5 business days
Statement of options on termination	5 business days from receipt of all required information	97.5% of options on termination issued within 5 business days from receipt of all required information
Statement of options on retirement	5 business days from receipt of all required information	99.7% of options on retirement issued within 5 business days from receipt of all required information
Statement of options on death	5 business days from receipt of all required information	100% of options on death issued within 5 business days from receipt of all required information
MPO* estimate requests	5 business days from receipt of all required information	97.0% of MPO estimates issued within 5 business days from receipt of all required information
MPO final calculations	10 business days from receipt of all required information	100% of MPO final calculations issued within 10 business days from receipt of all required information
MPO payment authorization	3 business days from receipt of all required information	100% of all MPO payment authorizations issued within 3 business days from receipt of all required information

\*Matrimonial Property Order

# MANAGEMENT DISCUSSION AND ANALYSIS

## PLAN COMMUNICATIONS

Member Handbooks were updated and distributed in February 2013, and the Communiqué was issued quarterly to update members and employers on topical subjects related to UAPP and pensions. In addition, personal annual statements were available to members in May giving the details of their entitlements to the end of 2012. To promote member understanding of the UAPP, the Trustees' Office continued to offer employers pension seminars for groups of employees as well as one-on-one information sessions.

Plan members and others continue to visit the UAPP website. There were almost 43,000 hits on the site in 2013. Popular subjects of interest included "What's New", Information Sheets, Member Handbook, and Annual Report. The Trustees' Office also receives comments and questions from members who use the Feedback feature on the website.

Plan members continue to make use of the call center for pension-related information. In 2013, there were almost 2,600 calls handled by the call center. Plan members accessed the Retirement Planner over 6,900 times during 2013.

## OTHER DEVELOPMENTS IN 2013

- ❖ Enhanced employer annual reporting requirements were developed and reviewed by the employers.
- ❖ All administration forms were reviewed and revised where necessary.
- ❖ A third pensioner audit was completed in 2013 in accordance with the audit policy.
- ❖ The Pension Benefits Administration User Group continued to meet to discuss common issues.
- ❖ The production of triennial audit reports was coordinated with the employers.

## THE YEAR AHEAD

Key plans for 2014 include:

- ❖ Introduce a re-designed UAPP website.
- ❖ Audit approximately 25% of the pensioners.
- ❖ Continue to offer member information seminars and one-on-one member sessions.
- ❖ Promote the use of the website to encourage member and employer self-service, including making administration forms available online.
- ❖ Improve service by expanding direct delivery to members where possible.
- ❖ Work with stream-lined employer data reporting implementation for completion of the 2013 year-end.
- ❖ Monitor changes in pension legislation and implications to UAPP.



# MANAGEMENT'S RESPONSIBILITY FOR FINANCIAL REPORTING

The financial statements and information in the 2013 Annual Report are the responsibility of management and have been approved by the Board of Trustees.

The financial statements have been prepared in conformity with Canadian generally accepted accounting principles and, of necessity, include some amounts that are based on estimates and judgments. Financial information presented in the 2013 Annual Report that relates to the operations and financial position of the Universities Academic Pension Plan is consistent with that in the financial statements.

Alberta Investment Management Corporation (AIMCo), Beutel, Goodman & Company Ltd. and Fiera Capital Corporation, acting as investment managers, and Buck Consultants and CIBC Mellon, acting as pension administrators, maintain systems of internal control, including written policies, standards and procedures and formal authorization structures.

These systems are designed to provide management with reasonable assurance that transactions are properly authorized, reliable financial records are maintained and assets are adequately accounted for and safeguarded.

The Audit Committee assists the Board of Trustees in discharging its responsibility to approve the annual financial statements. The Committee meets regularly with both management and external auditors to review the scope and timing of the audit as well as to review any internal control or financial issues and their resolution. The Committee reviews the annual financial statements and recommends them to the Board of Trustees for approval.

KPMG LLP (KPMG), the Plan's external auditor, provides an independent audit of operations, investments, and financial statements. Their examination is conducted in accordance with Canadian generally accepted auditing standards and includes tests and other procedures that allow them to report on the fairness of the financial statements. KPMG has full and unrestricted access to discuss the audit and related findings regarding the integrity and financial reporting and the adequacy of internal controls.



*Dave Schnore*  
Executive Director



*Chris Schafer*  
Director, Finance & Administration

# INDEPENDENT AUDITOR'S REPORT

## To the Board of Trustees of Universities Academic Pension Plan

We have audited the accompanying financial statements of Universities Academic Pension Plan, which comprise the statement of financial position as at December 31, 2013, the statements of changes in net assets available for benefits and changes in pension obligation for the year then ended, and notes, comprising a summary of significant accounting policies and other explanatory information.

### *Management's Responsibility for the Financial Statements*

Management is responsible for the preparation and fair presentation of these financial statements in accordance with Canadian accounting standards for pension plans, and for such internal control as management determines necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

### *Auditors' Responsibility*

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with Canadian generally accepted auditing standards. Those standards require that we comply with ethical requirements and plan and perform an audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on our judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, we consider internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

### *Opinion*

In our opinion, the financial statements present fairly, in all material respects, the financial position of Universities Academic Pension Plan as at December 31, 2013, and the changes in its net assets available for benefits and changes in its pension obligation for the year then ended in accordance with Canadian accounting standards for pension plans.

A handwritten signature in black ink that reads "KPMG LLP". The signature is written in a cursive, stylized font. Below the signature is a horizontal line.

Chartered Accountants  
Edmonton, Canada  
March 27, 2014

# FINANCIAL STATEMENTS

## Statement of Financial Position

As at December 31, 2013

		(\$ thousands)	
		2013	2012
<b>Net assets available for benefits</b>			
Assets			
Investments (Note 3)	\$	3,339,297	\$ 2,933,339
Contributions receivable			
Employers		8,366	8,687
Employees		8,463	8,799
Province of Alberta		1,024	1,338
Accounts receivable and accrued investment income		578	402
Total Assets		3,357,728	2,952,565
Liabilities			
Accounts payable and accrued liabilities		566	557
Total Liabilities		566	557
<b>Net assets available for benefits</b>		<b>3,357,162</b>	<b>2,952,008</b>
<b>Pension obligation and deficit</b>			
Pension obligation (Note 5)		4,339,400	3,996,500
Deficit (Note 6)		(982,238)	(1,044,492)
<b>Pension obligation and deficit</b>	\$	<b>3,357,162</b>	\$ <b>2,952,008</b>

*The accompanying notes are part of these financial statements.*

# FINANCIAL STATEMENTS

## Statement of Changes In Net Assets Available For Benefits

For the year ended December 31, 2013

	(\$ thousands)	
	2013	2012
<b>Increase in assets</b>		
Contributions (Note 7)	\$ 221,855	\$ 212,037
Investment income (Note 8)	402,229	318,243
	624,084	530,280
<b>Decrease in assets</b>		
Benefit payments (Note 10)	(205,390)	(194,802)
Investment expenses (Note 11)	(11,801)	(9,245)
Administrative expenses (Note 12)	(1,739)	(1,772)
	(218,930)	(205,819)
<b>Increase in net assets</b>	405,154	324,461
<b>Net assets available for benefits at beginning of year</b>	2,952,008	2,627,547
<b>Net assets available for benefits at end of year</b>	<u>\$ 3,357,162</u>	<u>\$ 2,952,008</u>

*The accompanying notes are part of these financial statements.*

## Statement of Changes in Pension Obligation

For the year ended December 31, 2013

	(\$ thousands)			
	2013			2012
	Pre-1992	Post-1991	Total	Total
<b>Increase in pension obligation</b>				
Interest accrued on pension obligation	\$ 100,300	\$ 164,600	\$ 264,900	\$ 253,100
Benefits earned	-	142,300	142,300	136,100
Actuarial assumption changes (Note 5(a))	76,600	49,800	126,400	-
Net experience loss	23,500	13,500	37,000	-
Cost-of-living experience gain	(9,100)	(6,600)	(15,700)	(10,600)
	191,300	363,600	554,900	378,600
<b>Decrease in pension obligation</b>				
Benefits paid, including interest	131,900	80,100	212,000	201,100
<b>Net increase in pension obligation</b>	59,400	283,500	342,900	177,500
<b>Pension obligation at beginning of year</b>	1,566,700	2,429,800	3,996,500	3,819,000
<b>Pension obligation at end of year (Note 5)</b>	\$ 1,626,100	\$ 2,713,300	\$ 4,339,400	\$ 3,996,500

The accompanying notes are part of these financial statements.

# FINANCIAL STATEMENTS

## NOTES TO THE FINANCIAL STATEMENTS

For the year ended December 31, 2013

### NOTE 1 SUMMARY DESCRIPTION OF THE PLAN

Effective January 1, 2001 the Universities Academic Pension Plan (the Plan) became a non-statutory pension plan subject to and registered under the Employment Pension Plans Act of Alberta. The Plan is also registered under the Income Tax Act. The Plan's registration number is 0339572. The Plan operates under a Sponsorship and Trust Agreement signed by the Plan Sponsors. A complete description of the Plan can be found in the Sponsorship and Trust Agreement. The Board of Trustees appointed by Plan Sponsors is responsible for administration of the Plan. The summary description of the Plan described below applies to members who contribute to the Plan on or after January 1, 2001.

#### a) GENERAL

The Plan is a contributory defined benefit pension plan for academic staff members and other eligible employees of the Universities of Alberta, Calgary and Lethbridge, Athabasca University and The Banff Centre.

In addition, employees of the Board of Trustees and the professional staff of the University of Calgary Faculty Association, the Association of Academic Staff University of Alberta and the Athabasca University Faculty Association also participate in the Plan.

#### b) FUNDING POLICY

Contributions and investment earnings are expected to fund all benefits payable under the Plan. Employees and employers are responsible for fully funding service after 1991.

The unfunded liability for service prior to January 1, 1992 is financed by additional contributions from the Province of Alberta, employers and employees. These contribution rates are set on the basis that the additional contributions will eliminate the pre-1992 service unfunded liability on or before December 31, 2043. The Province pays 1.25% of salary and the balance of the required contributions are equally split between employees and employers.

Under the Employment Pension Plans Amendment Regulation 245/2003 (Order in Council 357/203), the Plan is exempt from funding solvency deficiencies effective January 1, 2003 in respect of all service.

The Board of Trustees, in consultation with the Plan's actuary, reviews the contribution rates at least once every three years.

The contribution rates in effect on July 1, 2012 for employees of the Universities of Alberta, Calgary and Lethbridge, employees of the Board of Trustees, and the professional staff of the University of Calgary Faculty Association and the Association of Academic Staff University of Alberta were 11.17% of pensionable salary up to the YMPE, 14.26% on pensionable salary above the YMPE and up to the pensionable salary cap, and 1.17% on earnings above the pensionable salary cap. Employers contribute at the same rate as employees.

# FINANCIAL STATEMENTS

The contribution rates in effect on July 1, 2012 for employees of Athabasca University, The Banff Centre and the professional staff of the Athabasca University Faculty Association were 10.67% of pensionable salary up to the YMPE and 13.76% on pensionable salary above the YMPE and up to the pensionable salary cap. Employers contribute at a rate 1.0% higher than employees. In addition, employees and employers provide equal matching contributions of 1.17% on earnings above the pensionable salary cap.

Effective July 1, 2014, contribution rates for employees of the Universities of Alberta, Calgary and Lethbridge, employees of the Board of Trustees, and the professional staff of the University of Calgary Faculty Association and the Association of Academic Staff University of Alberta shall increase to 11.82% of pensionable salary up to the YMPE, 15.02% on pensionable salary above the YMPE and up to the pensionable salary cap, and 1.44% on earnings above the pensionable salary cap. Employers contribute at the same rate as employees.

Also effective July 1, 2014, contribution rates for employees of Athabasca University, The Banff Centre and the professional staff of the Athabasca University Faculty Association shall increase to 11.32% of pensionable salary up to the YMPE and 14.52% on pensionable salary above the YMPE and up to the pensionable salary cap. Employers contribute at a rate 1.0% higher than employees. In addition, employees and employers provide equal matching contributions of 1.44% on earnings above the pensionable salary cap.

## **c) RETIREMENT BENEFITS**

The Plan provides for a pension based upon the average pensionable salary of the highest five consecutive years. For service before 1994, the pension is 2% for each year of pensionable service. From January 1, 1994, the Plan's benefits and contributions were integrated with the Canada Pension Plan. As a result, pensions for service after 1993 are reduced at age 65. The reduction is 0.6% of the average YMPE for the same five years as used in calculating the average pensionable salary of the highest five consecutive years. The maximum service allowable under the Plan is 35 years.

Members are entitled to an unreduced pension for service before 1994 if they have attained age 55 and have at least two years of membership.

Members are entitled to an unreduced pension for service after 1993 if they have either attained age 60 and have at least two years of membership or have attained age 55 and the sum of their age and years of membership equals at least 80.

Members are entitled to a reduced pension for service after 1993 if they have attained age 55 and have at least two years of membership.

Members who become disabled and have at least two years of membership and are not in receipt of benefits from an approved disability plan are eligible to apply for a disability pension.

## **d) DEATH BENEFITS**

Death benefits are payable on the death of a member. If the member had at least two years of membership, a surviving spouse may choose to receive a pension based on total service or a lump sum payment. For a beneficiary other than a spouse, or where membership is less than two years, a lump sum payment must be paid.

# FINANCIAL STATEMENTS

## **e) TERMINATION BENEFITS**

Members who terminate with two or more years of membership and are not immediately entitled to a pension may elect to receive a deferred pension or a lump sum refund.

Refunds on service performed before 1994 equal employee and employer contributions plus interest, or the commuted value of the member's earned pension, whichever is greater.

Refunds on service performed after 1993 equal 1.75 times employee contributions plus interest, or the commuted value of the member's earned pension, whichever is greater.

Refunds are subject to the Plan's lock-in provisions and excess contribution rules.

Members with less than two years of membership are entitled to a refund of their own contributions plus interest.

## **f) DISABILITY BENEFITS**

Members who become disabled and are in receipt of benefits from an approved disability plan continue to earn pensionable service credits under the Plan.

## **g) OPTIONAL SERVICE TRANSFERS**

Leaves of absence which are purchased before April 30th following a return to work are costed, based on the contributions which would have been paid during the leave period plus interest. All other optional service purchases are costed on an actuarial reserve basis and are cost neutral to the Plan. Funds related to the transfer of service to other plans are based on the regular termination benefits.

## **h) COST-OF-LIVING ADJUSTMENTS**

Pensions payable are increased each year on January 1st by an amount equal to 60% of the increase in the Alberta Consumer Price Index. The increase is based on the increase during the twelve-month period ending on October 31st in the previous year.



# FINANCIAL STATEMENTS

## NOTE 2 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES AND REPORTING PRACTICES

### a) BASIS OF PRESENTATION

These financial statements are prepared on the going concern basis in accordance with Canadian accounting standards for pension plans. The Plan has elected to apply International Financial Reporting Standards (IFRS) for accounting policies that do not relate to its investment portfolio or pension obligation. The statements provide information about the net assets available in the Plan to meet future benefit payments and are prepared to assist Plan members and others in reviewing the activities of the Plan for the year.

### b) VALUATION OF INVESTMENTS

Investments are recorded at fair value. As disclosed in Note 3, the Plan's investments consist primarily of direct ownership in units of pooled investment funds ("the pools").

Contracts to buy and sell financial instruments in the pools are between the investment managers and the third parties to the contracts. Participants in the pools are not party to the contracts and have no control over the management of the pool and the selection of securities in the pool. The investment managers control the creation of the pools and the management and administration of the pools including security selection. Accordingly, the Plan does not report the financial instruments of the pools on its statement of financial position.

The Plan becomes exposed to the financial risks and rewards associated with the underlying financial instruments in a pool when it purchases units issued by the pools and loses its exposure to those financial risks and rewards when it sells its units. The Plan reports its share of the financial risks in Note 4.

The fair value of units held by the Plan is derived from the fair value of the underlying financial instruments held by the pools as determined by the investment managers (see Note 3(b)). Investments in units are recorded in the Plan's accounts. The underlying financial instruments are recorded in the accounts of the pools. The pools have a market-based unit value that is used to distribute income to the pool participants and to value purchases and sales of the pool units. The pools include various financial instruments such as bonds, equities, real estate, derivatives, investment receivables and payables and cash.

The Plan's cut-off policy for valuation of investments, investment income and investment performance is based on valuations provided by the investment managers at the close of the sixth business day following the year end. Differences in valuation estimates provided to Treasury Board and Finance after the year end cut-off date are reviewed by management. Differences considered immaterial by management are included in investment income in the following period.

Investments in units are recorded in the Plan's accounts on a trade date basis.

All purchases and sales of the pool units are in Canadian dollars.

# FINANCIAL STATEMENTS

Fair value is the amount of consideration agreed upon in an arm's length transaction between knowledgeable, willing parties who are under no compulsion to act.

## **c) INVESTMENT INCOME**

Investment income includes the following:

- i) Income distributions from the pools are recorded in the Plan's accounts and included in investment income on the Statement of Changes in Net Assets (see Note 8). Income distributions are based on the Plan's pro-rata share of total units issued by the pools.
- ii) Realized gains and losses on disposal of units and unrealized gains and losses on units are recorded in the Plan's accounts and included in investment income on the Statement of Changes in Net Assets. Realized gains and losses on disposal of units are determined on an average cost basis.
- iii) Investment income is recorded on an accrual basis.

## **d) INVESTMENT EXPENSES**

Investment expenses include all amounts, including transaction costs, charged to the Plan by the investment managers (see Note 11). Investment expenses are recorded on an accrual basis.

## **e) CONTRIBUTIONS, BENEFIT PAYMENTS AND ADMINISTRATIVE EXPENSES**

Contributions, benefit payments, administrative expenses and related accounts receivable and payable are recorded on an accrual basis.

## **f) VALUATION OF PENSION OBLIGATION**

The value of the pension obligation and changes therein during the year are based on an actuarial valuation prepared by an independent firm of actuaries. A valuation must be performed at least every three years and results from the most recent valuation are extrapolated, on an annual basis, to year-end. The valuation uses the projected benefit method pro-rated on service and management's best estimate, as at the valuation and extrapolation date, of various economic and non-economic assumptions.

# FINANCIAL STATEMENTS

## **g) MEASUREMENT UNCERTAINTY**

In preparing these financial statements, estimates and assumptions are used in circumstances where the actual values are unknown. Uncertainty in the determination of the amount at which an item is recognized in the financial statements is known as measurement uncertainty. Such uncertainty exists when there is a variance between the recognized amount and another reasonably possible amount, as there is whenever estimates are used.

Measurement uncertainty exists in the valuation of the Plan's pension obligation, private investments, real estate and timberland pools. Uncertainty arises because:

- i) the Plan's actual experience may differ, perhaps significantly, from assumptions used in the extrapolation of the Plan's pension obligation, and
- ii) the estimated fair values of the Plan's private investments, real estate and timberland pools may differ significantly from the values that would have been used had a ready market existed for these investments.

While best estimates have been used in the valuation of the Plan's pension obligation, private investments, real estate and timberland investments, management considers that it is possible, based on existing knowledge, that changes in future conditions in the short term could require a material change in the recognized amounts.

Differences between actual results and expectations in the Plan's pension obligation are disclosed as assumption or other changes and net experience gains or losses in the statements of changes in pension obligation in the year when actual results are known.

Differences between the estimated fair values and the amount ultimately realized for investments are included in net investment income in the year when the ultimate realizable values are known.

## **h) INCOME TAXES**

The Plan is a registered pension plan, as defined by the Income Tax Act (Canada) and, accordingly, is not subject to income taxes.

# FINANCIAL STATEMENTS

## NOTE 3 INVESTMENTS

The Plan's investments are managed at the asset class level for purposes of evaluating the Plan's risk exposure and investment performance against approved benchmarks based on fair value. The Plan's assets are managed in accordance with the Statement of Investment Policies and Goals (SIP&G) approved by the Plan's Board. The fair value of the pool units is based on the Plan's share of the net asset value of the pooled fund. The pools have a market based unit value that is used to allocate income to participants of the pool and to value purchases and sales of the pool units. The investment managers are delegated authorities to independently purchase and sell securities in the pools and Plan, and units of the pools, within the ranges approved for each asset class (see Note 4).

(\$ thousands)					
	Fair Value Hierarchy <sup>(a)</sup>			2013	2012
	Level 1	Level 2	Level 3	Fair Value	Fair Value
<b>Fixed income</b>					
Cash and short-term securities	\$ -	\$ 16,714	\$ -	\$ 16,714	\$ 13,735
Bonds and mortgages	-	625,125	100,854	725,979	686,874
Real return bonds	-	214,962	-	214,962	197,919
	-	856,801	100,854	957,655	898,528
<b>Public equities</b>					
Canadian	369,959	221,230	-	591,189	509,580
Global	792,950	279,094	25,076	1,097,120	885,055
Emerging markets	232,968	31,795	29,601	294,364	270,894
	1,395,877	532,119	54,677	1,982,673	1,665,529
<b>Alternatives</b>					
Real estate	-	-	238,377	238,377	220,774
Infrastructure and private debt and loans	-	-	129,942	129,942	126,591
Timberland	-	-	30,650	30,650	21,917
	-	-	398,969	398,969	369,282
<b>Total investments</b>	<b>\$ 1,395,877</b>	<b>\$ 1,388,920</b>	<b>\$ 554,500</b>	<b>\$ 3,339,297</b>	<b>\$ 2,933,339</b>

a) **Fair Value Hierarchy:** The quality and reliability of information used to estimate the fair value of investments is classified according to the following fair value hierarchy with Level 1 being the highest quality and reliability.

- **Level 1:** fair value is based on quoted prices in an active market. This level includes publicly traded listed equity investments totaling \$1,395,877 (2012: \$1,218,487).
- **Level 2:** fair value is estimated using valuation techniques that make use of market-observable inputs other than quoted market prices. This level includes debt securities and derivative contracts not traded on a public exchange totaling \$1,388,920 (2012: \$1,267,317). For these investments, fair value is either derived from a number of prices that are provided by independent pricing sources or from pricing models that use observable market data such as swap curves and credit spreads.
- **Level 3:** fair value is estimated using inputs based on non-observable market data. This level includes private mortgages, private equities and all inflation sensitive investments totaling \$554,500 (2012: \$447,535).

# FINANCIAL STATEMENTS

## Reconciliation of Level 3 Fair Value Measurements:

	(\$ thousands)	
	2013	2012
Balance, beginning of year	\$ 447,535	\$ 444,345
Investment income	47,184	47,206
Purchases of Level 3 pooled fund units	117,152	36,425
Sale of Level 3 pooled fund units	(57,371)	(80,441)
<b>Balance, end of year</b>	<b>\$ 554,500</b>	<b>\$ 447,535</b>

## b) Valuation of Financial Instruments in the Pools

The methods used to determine the fair value of investments recorded in the pools is explained in the following paragraphs:

- **Fixed income:** Public interest-bearing securities are valued at the year-end closing sale price or the average of the latest bid and ask prices quoted by an independent securities valuation company. Private mortgages are valued based on the net present value of future cash flows. Cash flows are discounted using appropriate interest rate premiums over similar Government of Canada benchmark bonds trading in the market.
- **Public equities:** Public equities are valued at the year-end closing sale price or the average of the latest bid and ask prices quoted by an independent securities valuation company.
- **Alternatives:** The estimated fair value of private real estate investments is reported at the most recent appraised value, net of any liabilities against the real property. Real estate properties are appraised annually by qualified external real estate appraisers. Appraisers use a combination of methods to determine fair value including replacement cost, direct comparison, direct capitalization of earnings and the discounted cash flows. The fair value of infrastructure investments is estimated by managers or general partners of infrastructure funds, pools and limited partnerships. Valuation methods may encompass a broad range of approaches. The cost approach is used to value companies without either profits or cash flows. Established private companies are valued using the fair market value approach reflecting conventional valuation methods including discounted cash flows and earnings multiple analysis. Private debt and loans is valued similar to private mortgages. The fair value of timberland investments is appraised annually by independent third party evaluators.
- **Foreign currency:** Foreign currency transactions in pools are translated into Canadian dollars using average rates of exchange. At year end, the fair value of investments in other assets and liabilities denominated in a foreign currency are translated at the year-end exchange rates.

# FINANCIAL STATEMENTS

- **Derivative contracts:** The carrying value of derivative contracts in a favourable and unfavourable position is recorded at fair value and is included in the fair value of pooled investment funds (see Note 4(f)). The estimated fair value of equity and bond index swaps is based on changes in the appropriate market-based index net of accrued floating rate interest. Interest rate swaps and cross-currency interest rate swaps are valued based on discounted cash flows using current market yields and exchange rates. Credit default swaps are valued based on discounted cash flows using current market yields and calculated default probabilities. Forward foreign exchange contracts and futures contracts are valued based on quoted market prices. Options to enter into interest rate swap contracts are valued based on discounted cash flows using current market yields and volatility parameters which measure changes in the underlying swap. Warrants and rights are valued at the year-end closing sale price or the average of the latest bid and ask prices quoted by an independent securities valuation company.

## NOTE 4 INVESTMENT RISK MANAGEMENT

The Plan is exposed to financial risks associated with the underlying securities held in the pooled investment funds. These financial risks include credit risk, market risk and liquidity risk. Credit risk relates to the possibility that a loss may occur from the failure of another party to perform according to the terms of a contract. Market risk is comprised of currency risk, interest rate risk and price risk. Liquidity risk is the risk the Plan will not be able to meet its obligations as they fall due.

The investment policies and procedures of the Plan are clearly outlined in the SIP&G approved by the Board. The purpose of the SIP&G is to ensure the Plan is invested and managed in a prudent manner in accordance with current, accepted governance practices incorporating an appropriate level of risk. The Board manages the Plan's return-risk trade-off through asset class diversification, target ranges on each asset class, diversification within each asset class, quality constraints on fixed income instruments and restrictions on amounts exposed to countries designated as emerging markets. Forward foreign exchange contracts may be used to manage currency exposure in connection with securities purchased in a foreign currency (see Note 4(b)).

Actuarial liabilities of the Plan are primarily affected by the long-term real rate of return expected to be earned on investments. In order to earn the best possible return at an acceptable level of risk, the Board has established the following asset mix policy ranges:

Asset Class	Target Asset Policy Mix	Actual Asset Mix			
		December 31, 2013		December 31, 2012	
		(\$ thousands)	%	(\$ thousands)	%
Fixed income	25 - 35%	\$ 957,655	28.7	\$ 898,528	30.6
Public equities	50 - 60%	1,982,673	59.4	1,665,529	56.8
Alternatives	7.5 - 20%	398,969	11.9	369,282	12.6
		<u>\$ 3,339,297</u>	<u>100.0</u>	<u>\$ 2,933,339</u>	<u>100.0</u>

# FINANCIAL STATEMENTS

## a) Credit risk

### i) Debt securities

The Plan is indirectly exposed to credit risk associated with the underlying debt securities held in the pools. Counterparty credit risk is the risk of loss arising from the failure of a counterparty to fully honour its financial obligations. The credit quality of financial assets is generally assessed by reference to external credit ratings. Credit risk can also lead to losses when issuers and debtors are downgraded by credit rating agencies usually leading to a fall in the fair value of the counterparty's obligations. Credit risk exposure for financial instruments is measured by the positive fair value of the contractual obligations with counterparties. The fair value of all investments reported in Note 3 is directly or indirectly impacted by credit risk to some degree. The majority of investments in debt securities are with counterparties with credit ratings considered to be investment grade.

The table below summaries these debt securities by counterparty credit rating at December 31, 2013:

Credit rating	2013	2012
Investment Grade (AAA to BBB-)	90%	89%
Speculative Grade (BB+ or lower)	-	1%
Unrated	10%	10%
	100%	100%

### ii) Counterparty default risk - derivative contracts

The Plan's maximum credit risk in respect of derivative financial instruments is the fair value of all contracts with counterparties in a favourable position (see Note 4(f)). The Plan can only transact with counterparties to derivative contracts with a credit rating of A+ or higher by at least two recognized ratings agencies. Provisions are in place to either transfer or terminate existing contracts when the counterparty has their credit rating downgraded. The exposure to credit risk on derivatives is reduced by entering into master netting agreements and collateral agreements with counterparties. To the extent that any unfavourable contracts with the counterparty are not settled, they reduce the Plan's net exposure in respect of favourable contracts with the same counterparty.

### iii) Security lending risk

To generate additional income, the Plan participates in a securities-lending program. Under this program, the custodian may lend investments held in the pools to eligible third parties for short periods. At December 31, 2013, the Fund's share of securities loaned under this program is \$131 million and collateral held totals \$138 million. Securities borrowers are required to provide the collateral to assure the performance of redelivery obligations. Collateral may take the form of cash, other investments or a bank-issued letter of credit. All collateralization, by the borrower, must be in excess of 100% of investments loaned.

# FINANCIAL STATEMENTS

## b) Foreign currency risk

The Plan is exposed to foreign currency risk associated with the underlying securities held in the pools that are denominated in currencies other than the Canadian dollar. Foreign currency risk is the risk that the fair value or future cash flows of a financial instrument will fluctuate because of changes in foreign exchange rates. The fair value of investments denominated in foreign currencies is translated into Canadian dollars using the reporting date exchange rate. As a result, fluctuations in the relative value of the Canadian dollar against these foreign currencies can result in a positive or negative effect on the fair value of investments. Approximately 42% (2012 – 38%) of the Plan's investments, or \$1,386 million (2012 - \$1,102 million), are denominated in currencies other than the Canadian dollar, with the largest foreign currency exposure being to the US dollar (20%) and the Euro (4%).

If the value of the Canadian dollar increased by 10% against all other currencies, and all other variables are held constant, the potential loss in fair value to the Plan would be approximately 4.2% (2012: 3.8%) of total investments.

The following table summarizes the Plan's exposure to foreign currency investments held in the pools at December 31, 2013:

<u>Currency</u>	(\$ millions)			
	2013		2012	
	Fair Value	Sensitivity	Fair Value	Sensitivity
US dollar	\$ 669	\$ (67)	\$ 500	\$ (50)
Euro	142	(14)	126	(13)
Japanese yen	80	(8)	63	(6)
British pound	84	(8)	77	(8)
Australian dollar	38	(4)	34	(3)
Swiss franc	40	(4)	24	(2)
Other foreign currencies	333	(33)	278	(28)
<b>Total foreign currency investments</b>	<b>\$ 1,386</b>	<b>\$ (138)</b>	<b>\$ 1,102</b>	<b>\$ (110)</b>

## c) Interest rate risk

The Plan is exposed to interest rate risk associated with the underlying interest-bearing securities held in pooled investment funds. Interest rate risk relates to the possibility that the investments will change in value due to future fluctuations in market interest rates. In general, investment returns from bonds and mortgages are sensitive to changes in the level of interest rates, with longer term interest bearing securities being more sensitive to interest rate changes than shorter term bonds. If interest rates increased by 1%, and all other variables are held constant, the potential loss in fair value to the Plan would be approximately 2.8% (2012: 3.1%) of total investments.



# FINANCIAL STATEMENTS

## d) Price risk

Price risk relates to the possibility that equity investments will change in value due to future fluctuations in market prices caused by factors specific to an individual equity investment or other factors affecting all equities traded in the market. The Plan is exposed to price risk associated with the underlying equity investments held in the pools. If equity market indices (S&P/TSX, S&P500, S&P1500 and MSCI ACWI and their sectors) declined by 10%, and all other variables are held constant, the potential loss in fair value to the Plan would be approximately 5.4% (2012: 6.1%) of total investments. Changes in fair value of investments are recognized in the statement of changes in net assets available for benefits.

## e) Liquidity risk

Liquidity risk is the risk that the Plan will encounter difficulty in meeting obligations associated with its financial liabilities. Liquidity requirements of the Plan are met through income generated from investments, employee and employer contributions, and by investing in pools that hold publicly traded liquid assets traded in an active market that are easily sold and converted to cash. These sources of cash are used to pay pension benefits and operating expenses, purchase new investments, settle derivative transactions with counterparties and margin calls on futures contracts. The Plan's future liabilities include the accrued pension benefits obligation and exposure to net payables to counterparties (Note 4(f)).

## f) Use of Derivative Financial Instruments in Pooled Investment Funds

The Plan has indirect exposure to derivative financial instruments through its investment in units of the pools. Derivative financial instruments are used to cost effectively gain access to equity markets in the pools, manage asset exposure within the pools, enhance pool returns and manage interest rate risk, foreign currency risk and credit risk in the pools.

	Number of counterparties	Plan's Indirect Share (\$ thousands)	
		2013	2012
By counterparty			
Contracts in favourable position (current credit exposure)	22	\$ 40,944	\$ 36,068
Contracts in unfavourable position	15	(29,622)	(14,454)
Net fair value of derivative contracts	37	\$ 11,322	\$ 21,614

- Current credit exposure: The current credit exposure is limited to the amount of loss that would occur if all counterparties to contracts in a favourable position totaling \$40,944 (December 31, 2012: \$36,068) were to default at once.
- Cash settlements: Receivables or payables with counterparties are usually settled in cash every three months.
- Contract notional amounts: The fair value of receivables (receive leg) and payables (pay leg) and the exchange of cash flows with counterparties in pooled funds are based on a rate or price applied to a notional amount specified in the derivative contract. The notional amount itself is not invested, received or exchanged with the counterparty and is not indicative of the credit risk associated with the contract. Notional amounts are not assets or liabilities and do not change the asset mix reported in Note 3. Accordingly, there is no accounting policy for their recognition in the statement of financial position.

# FINANCIAL STATEMENTS

Types of derivatives used in pools	Plan's Indirect Share	
	(\$ thousands)	
	2013	2012
Structured equity replication derivatives	\$ 14,560	\$ 22,272
Foreign currency derivatives	(1,705)	(563)
Interest rate derivatives	(1,533)	475
Credit risk derivatives	-	(570)
Net fair value of derivative contracts	\$ 11,322	\$ 21,614

- i) Structured equity replication derivatives: Equity index swaps are structured to receive income from counterparties based on the performance of a specified market-based equity index, security or basket of equity securities applied to a notional amount in exchange for floating rate interest paid to the counterparty. Floating rate notes are held in equity pools to provide floating rate interest to support the pay leg of the equity index swap. Rights, warrants, futures and options are also included as structured equity replication derivatives.
- ii) Foreign currency derivatives: Foreign currency derivatives include contractual agreements to exchange specified currencies at an agreed upon exchange rate and on an agreed settlement date in the future.
- iii) Interest rate derivatives: Interest rate derivatives exchange interest rate cash flows (fixed to floating or floating to fixed) based on a notional amount. Interest rate derivatives primarily include interest rate swaps and cross currency interest rate swaps, futures contracts and options.
- iv) Credit risk derivatives: Credit risk derivatives include credit default swaps allowing the pools to buy and sell protection on credit risk inherent in a bond. A premium is paid or received, based on a notional amount in exchange for a contingent payment should a defined credit event occur with respect to the underlying security.
- v) Deposits: At December 31, 2013 deposits in futures contracts margin accounts totaled \$16,541 (2012: \$7,109) and deposits as collateral for derivative contracts totaled \$258 (2012: \$nil).

## NOTE 5 PENSION OBLIGATION

### a) ACTUARIAL VALUATION AND EXTRAPOLATION

An actuarial valuation of the Plan was carried out as at December 31, 2012 by the Plan's actuarial consultants, Aon Hewitt. The December 31, 2012 valuation results were extrapolated to December 31, 2013.

The pension obligation was determined using the projected benefit method prorated on service. The assumptions used in the valuation extrapolation were developed as the best estimate of expected short-term and long-term market conditions and other future events. After consultation with the Plan's actuary, the Board of Trustees adopted this best estimate.

# FINANCIAL STATEMENTS

The major assumptions used were:

	<b>2012 Valuation and 2013 Extrapolation</b>	<b>2010 Valuation and 2012 Extrapolation</b>
	<b>%</b>	<b>%</b>
Asset real rate of return		
Next 2 years	4.00	4.00
Thereafter	4.00	4.00
Inflation rate		
Next 2 years	2.25	2.40
Thereafter	2.25	2.40
Discount rate	6.25	6.40
Salary escalation rate *		
Next 2 years	1.50	4.00
Thereafter	2.75	2.90
Pension cost-of-living increase as a percentage of Alberta Consumer Price Index	60.00	60.00

*\* In addition to merit and promotion*

The mortality table assumption used for the 2012 valuation and 2013 extrapolation is 92% of the 1994 Uninsured Pensioner Mortality Table with generational projection according to scale BB.

An actuarial valuation of the Plan will be carried out no later than December 31, 2015. Any differences between the actuarial valuation results and extrapolation results as reported in these financial statements will affect the financial position of the Plan and will be accounted for as gains or losses in the following year.

# FINANCIAL STATEMENTS

## b) SENSITIVITY OF CHANGES IN MAJOR ASSUMPTIONS

The Plan's future experience will inevitably differ, perhaps significantly, from these assumptions. Any differences between the actuarial assumptions and future experience will emerge as gains or losses in future valuations and may materially affect the financial position of the Plan.

	Sensitivities		
	Changes in Assumptions %	Increase in Plan's Actuarial Deficiency (\$ thousands)	Increase in Current Service Cost as a % of Pensionable Earnings *
Inflation rate increase holding discount rate and salary escalation assumptions constant	1.0	269,800	1.1
Salary escalation rate increase holding inflation rate and discount rate assumptions constant	1.0	62,400	0.9
Discount rate decrease holding inflation rate and salary escalation assumptions constant	-1.0	642,100	4.0

\* The current service cost as a % of pensionable earnings as determined by the December 31, 2012 valuation is 18.4%.

# FINANCIAL STATEMENTS

## NOTE 6 DEFICIT

	(\$ thousands)		
	2013		
	Pre-1992	Post-1991	Total
<b>Deficit, beginning of year</b>	\$ 747,200	\$ 297,292	\$ 1,044,492
Increase in net assets available for benefits	(6,500)	(398,654)	(405,154)
Net increase in accrued pension liability	59,400	283,500	342,900
<b>Deficit, end of year</b>	<b>\$ 800,100</b>	<b>\$ 182,138</b>	<b>\$ 982,238</b>

In accordance with the requirements of the Public Sector Pension Plans Act, separate accounting is required of the pension deficit with respect to service that was recognized as pensionable as at December 31, 1991.

The following table summarizes the net assets available for benefits, pension obligation, and the resulting deficit as at December 31, 2013 allocated between the pre-1992 and post-1991 periods:

	(\$ thousands)		
	2013		
	Pre-1992	Post-1991	Total
Net assets available for benefits	\$ 826,000	\$ 2,531,162	\$ 3,357,162
Pension obligation	1,626,100	2,713,300	4,339,400
Deficit	\$ 800,100	\$ 182,138	\$ 982,238

The deficit for accounting purposes may differ from that for funding purposes (see Note 14).

# FINANCIAL STATEMENTS

## NOTE 7 CONTRIBUTIONS

	(\$ thousands)	
	2013	2012
Current service		
Employers	\$ 72,225	\$ 68,980
Employees	72,266	69,027
Contributions to meet post-1991 unfunded liability and optional service		
Employers	22,478	20,969
Employees	24,494	23,175
Contributions to meet pre-1992 unfunded liability		
Employers	9,905	9,505
Employees	9,905	9,505
Province of Alberta	10,582	10,876
	<u>\$ 221,855</u>	<u>\$ 212,037</u>

# FINANCIAL STATEMENTS

## NOTE 8 INVESTMENT INCOME

The following is a summary of the Plan's investment income (loss) by asset class:

	(\$ thousands)	
	2013	2012
<b>Fixed income</b>	\$ (45,831)	\$ 45,662
<b>Public equities</b>		
Canadian	80,273	55,846
Foreign	321,453	171,138
	401,726	226,984
<b>Alternatives</b>		
Real Estate	28,609	33,666
Infrastructure and private debt & loans	10,328	11,459
Absolute Return Strategies	-	302
Timberland	7,397	170
	46,334	45,597
	\$ 402,229	\$ 318,243

Investment income includes realized gains and losses from disposal of pool units, unrealized gains and losses on units and income distributions from the pools.

Income distributions from the pools is based on income earned by the pools determined on an accrual basis which includes interest, dividends, security lending income, realized gains and losses on sale of securities held by the pools, realized foreign exchange gains and losses, write-downs of securities held in the pools and income and expense earned on derivative contracts. Realized gains and losses are determined on an average cost basis. Impairment charges related to the write-down of securities held in the pools are indicative of a loss in value that is other than temporary.

# FINANCIAL STATEMENTS

## NOTE 9 INVESTMENT RETURNS, CHANGE IN NET ASSETS AND PENSION OBLIGATION

The following is a summary of investment returns (losses), and the annual change in net assets compared to the annual change in the pension obligation and the percentage of the pension obligation supported by net assets.

	(Percentage)				
	2013	2012	2011	2010	2009
Increase (decrease) in net assets attributed to:					
Investment income					
Policy benchmark return on investments	11.4	9.4	2.6	10.4	15.9
Value added return (loss) by investment managers	1.7	2.4	0.6	(0.4)	(0.4)
<b>Total return on investments (a)</b>	<b>13.1</b>	<b>11.8</b>	<b>3.2</b>	<b>10.0</b>	<b>15.5</b>
Other sources <sup>(b)</sup>	0.6	0.7	0.3	0.7	(0.0)
<b>Annual change in net assets<sup>(c)</sup></b>	<b>13.7</b>	<b>12.5</b>	<b>3.5</b>	<b>10.7</b>	<b>15.5</b>
<b>Annual change in pension obligation<sup>(c)</sup></b>	<b>8.6</b>	<b>4.6</b>	<b>7.6</b>	<b>4.7</b>	<b>4.6</b>
Pension obligation supported by net assets	<b>77</b>	<b>74</b>	<b>69</b>	<b>72</b>	<b>68</b>

- a) The annualized total return and policy benchmark return on investments over five years is 10.6% (PBR: 9.9%), ten years is 7.0% (PBR: 6.7%) and twenty years is 7.2% (PBR: 7.1%). The total return reported for 2012 has been restated to conform to changes subsequent to the completion of the 2012 financial statements. The total return in 2012 increased by 0.2% from 11.6% to 11.8% attributed to an increase in the valuation of certain assets by the investment managers. In addition, an increase in an estimated benchmark return caused an increase in the policy benchmark return in 2012 of 0.1% with a resulting further increase in the value added return of 0.1%.
- b) Other sources includes employee and employer contributions and transfers from other plans, net of benefit payments, transfers to other plans and administration expenses.
- c) The percentage increase in net assets and the pension obligation is based on the amounts reported on the statement of changes in net assets available for benefits and the statement of changes in pension obligation.



# FINANCIAL STATEMENTS

## NOTE 10 BENEFIT PAYMENTS

	(\$ thousands)	
	2013	2012
Retirement benefits	\$ 184,154	\$ 173,921
Termination benefits	18,530	18,405
Death benefits	2,706	2,476
	<u>\$ 205,390</u>	<u>\$ 194,802</u>

## NOTE 11 INVESTMENT EXPENSES

	(\$ thousands)	
	2013	2012
Amount charged:		
Management fees <sup>(a)</sup>	\$ 11,747	\$ 9,192
Alberta Treasury Board and Finance <sup>(b)</sup>	54	53
<b>Total investment expenses</b>	<u>\$ 11,801</u>	<u>\$ 9,245</u>
<b>Increase in expenses</b>	<u>27.6%</u>	<u>33.5%</u>
<b>Increase in average investments under management</b>	<u>13.2%</u>	<u>8.0%</u>
<b>Investment expenses as a percent of :</b>		
Dollar earned	2.9%	2.9%
Dollar invested	0.38%	0.33%
Investment expenses per member	<u>\$ 868.00</u>	<u>\$ 698.00</u>

a) For investment management services, including non-recoverable GST of \$308 (2012: \$264).

b) For investment accounting and Plan reporting services.

# FINANCIAL STATEMENTS

## NOTE 12 ADMINISTRATIVE EXPENSES

	(\$ thousands)	
	2013	2012
General administrative expenses	\$ 1,597	\$ 1,598
Board costs	54	84
Audit fees	55	55
Actuarial fees	33	35
	<u>\$ 1,739</u>	<u>\$ 1,772</u>

General Plan costs, including the costs for benefit administration and delivery, amounted to \$128.00 per member (2012: \$134.00 per member).

## NOTE 13 REMUNERATION OF BOARD MEMBERS

Remuneration rates as approved by Plan Sponsors are as follows:

### Remuneration rates effective April 1, 2009

	Chair	Trustee
Up to 4 hours	\$ 219	\$ 164
4 to 8 hours	383	290
Over 8 hours	601	427

During the year, the following amounts were paid:

	2013	2012
Remuneration		
Chair	\$ 3,823	\$ 4,156
Trustees (8)	21,048	34,773
Travel expenses		
Chair	3,736	4,462
Trustees (8)	13,200	21,470

Trustees are paid for attending and preparing for Board and Committee meetings and for time spent on specified UAPP business upon the approval of the Board. Preparation time for a meeting is remunerated at no more than 4 hours.

# FINANCIAL STATEMENTS

## NOTE 14 CAPITAL

The Plan defines its capital as the funded position. The actuarial surplus or deficit is determined by an actuarial funding valuation performed, at a minimum, every three years. The objective is to ensure that the Plan is fully funded over the long term.

The Plan's surplus (deficit) is determined on the fair value basis for accounting purposes. However, for funding valuation purposes, asset values are adjusted for fluctuations in fair values to moderate the effect of market volatility on the Plan's funded status. Under this method, asset values are calculated based on what the asset value would be at the valuation date had the assets earned precisely the rate of return assumed in the actuarial valuation. This calculation is carried out independently at each of two starting points, namely the market value as at each of the two calendar year-ends preceding the valuation date. These two calculated values, together with the market value as at the valuation date, are averaged to determine the actuarial value of assets with a constraint limiting the actuarial value not to exceed 110% or fall below 90% of net assets available for benefits.

Actuarial asset values for funding valuation purposes amounted to \$3,171,562 at December 31, 2013 (2012: \$2,890,208), comprising of \$773,500 (2012: \$799,400) pre-1992 and \$2,398,062 (2012: \$2,090,808) post-1991.

The following table summarizes on the funding basis, the accrued pension liability, net assets available for benefits, and the resulting deficit as at December 31, 2013 allocated between the pre-1992 and post-1991 periods:

	(\$ thousands)			
	<b>Pre-1992</b>	<b>2013 Post-1991</b>	<b>Total</b>	<b>2012 Total</b>
Net assets available for benefits	\$ 826,000	\$ 2,531,162	\$ 3,357,162	\$ 2,952,008
Actuarial adjustment for fluctuation in fair value of net assets	(52,500)	(133,100)	(185,600)	(61,800)
Actuarial value of net assets available for benefits	773,500	2,398,062	3,171,562	2,890,208
Pension obligation	1,626,100	2,713,300	4,339,400	3,996,500
<b>Actuarial deficit</b>	<b>\$ 852,600</b>	<b>\$ 315,238</b>	<b>\$ 1,167,838</b>	<b>\$ 1,106,292</b>

# FINANCIAL STATEMENTS

The Plan's unfunded liability for service prior to January 1, 1992 is being financed by additional contributions of 1.25% of salaries by the Province of Alberta with employers and employees equally sharing the balance of the contributions of 2.34% (2.87% effective July 1, 2014) of salaries as required to eliminate the unfunded liability on or before December 31, 2043. The actuarial valuation shows the present value of the Province of Alberta's obligation for future additional contributions was \$264.0 million at December 31, 2012.

The Plan's unfunded liability for service after December 31, 1991 is being financed equally between employers and employees by special payments of 5.54% (5.79% effective July 1, 2014) of salaries as required to eliminate the unfunded liability on or before December 31, 2027.

The additional contributions and special payments have been included in the rates shown in Note 1(b).

## **NOTE 15 APPROVAL OF FINANCIAL STATEMENTS**

These financial statements were approved by the Board of Trustees of the Plan.

# GLOSSARY

## GLOSSARY - TERMS

### *Absolute Return Strategies/Hedge Funds*

Encompass a wide variety of investments and trading strategies in private and publicly-traded securities with the objective of realizing positive returns independent of market direction.

Investments in absolute return strategies are made through fund-of-funds and specific fund investments to increase strategy diversification.

### *Active Management*

Managing the investments of a portfolio with the objective of outperforming the return of its benchmark. Active management generally takes two forms – security selection or change in asset allocations within the prescribed ranges. Security selection is the buying and selling of particular securities to earn a return above a market index. Asset allocation refers to changing asset class or sector weights to earn a return above what would be available from maintaining the asset class or sector weight in the benchmark.

### *Asset Mix/Allocation*

The allocation of a pension fund's investments among various asset classes such as bonds, equities, real estate, etc.

### *Benchmark*

A standard against which investment performance is measured.

### *Bonds*

Certificates of indebtedness issued by corporations, municipalities or governments on which the issuer promises to pay a specified amount of interest for a specified length of time and to repay the loan on maturity or the expiration date. A bond purchaser is lending money to the issuer. Bonds have terms to maturity greater than one year.

### *Emerging Market*

An economy in the earlier stages of development whose markets have sufficient size and liquidity and are receptive to foreign investment. Examples include China, Greece, and Brazil.

### *Equities/Common Stock*

Units of ownership of a corporation where owners typically are entitled to vote on the selection of directors and other important matters as well as to receive dividends on their holdings. In the event that a corporation is liquidated, the claims of secured and unsecured creditors and owners of bonds and preferred stock take precedence over the claims of those who own common stock. The liability of owners of equity is limited to the amount paid for the stock.

### *External Manager*

A third-party firm contracted by the Investment Manager to provide investment management services.

### *Large Cap*

"Large cap" refers to firms with large market capitalization. Market capitalization is simply the market value of a corporation's outstanding shares. In the US market, this refers to companies with market capitalization between \$10 billion and \$200 billion. These are the mega companies of the financial world: ExxonMobil, Microsoft, Citigroup, Wal-Mart and General Electric. Classifications such as "large cap" or "small cap" are only approximations that change over time.

### *Passive Management*

Managing the investments of a portfolio with the objective of matching/replicating the performance of a given market index or benchmark.

### *Policy Benchmark/Return*

The "policy benchmark" is a composite return based on the percentage of a pension plan's fund allocated by policy to each asset class and the market index return for that class. It is used to measure the plan's relative performance.

# GLOSSARY

## *Pooled Fund*

A fund in which money from two or more investors is accepted for investment and where units allocated to each investor serve to establish the proportionate interest at any time of each investor in the assets of the fund.

## *Private Income/Infrastructure*

Private Income opportunities represent privately-negotiated investments in private and publicly-traded entities. These investments are selected, structured and managed to provide (i) a current income component of total return, (ii) diversification and (iii) an inflation hedge. These investment opportunities are typically capital-intensive and may include infrastructure projects (long-life assets used to provide essential services), bridge loans and corporate finance arrangements (with a current income component of total return). Most infrastructure assets are illiquid assets.

## *Real Return Bond*

A fixed-income security (a bond) that generates a specified real rate of return. The real interest rate is the nominal (set) interest rate minus inflation.

## *Small Cap*

“Small cap” refers to firms with relatively smaller market capitalization. Though there is no rigorous definition, in the US, a company with a market capitalization of between \$300 million and \$2 billion is considered a small cap. The definition can change over time.

## *Statement of Investment Policies and Goals*

A comprehensive statement by the Board outlining the asset mix of the Fund, the allowable range for each asset class and the benchmarks for measuring performance.

## *Swap*

A privately-negotiated contract between two parties to exchange a stream of periodic payments on certain dates in the future based on an underlying investment. The size of these payments is normally determined in relation to a nominal, underlying amount, called the notional amount. The underlying security, representing the notional amount, is not exchanged between counterparties. Swaps available in and between all financial markets include, but are not exclusive to, equities, currencies, fixed income and commodities.

## *Timberland*

Timberland investments are made primarily in privately-owned areas of woodland; that is, forested areas consisting of both hardwood and softwood species. When responsibly managed, timberland investments are a renewable and sustainable resource. Timberland investments are illiquid assets.

## *Total Return*

Interest income plus price increases or decreases.

## *Treasury Bill/T-bill*

A short-term government debt security.

## *Unfunded Liability*

When the actuarial valuation determines that a pension fund's accrued liabilities exceed the assets available for the payment of benefits.

## *YMPE (Year's Maximum Pensionable Earnings)*

The maximum earnings set each year by the Canada Pension Plan (CPP) up to which employers and employees are required to make CPP contributions.

# GLOSSARY

## GLOSSARY - INDICES

### *BMO Small Cap Blended Index*

An index maintained by BMO Nesbitt Burns that is made up of 400 representative Canadian public companies and income trusts with market capitalizations of less than 0.1% of the S&P/TSX Composite total capitalization. This index is market capitalization weighted.

### *Consumer Price Index (CPI)*

The Consumer Price Index (CPI) is an indicator of the prices encountered by consumers. It is obtained by calculating, on a monthly basis, the cost of a fixed “basket” of commodities purchased by a typical consumer during a given month. The CPI is published by Statistics Canada and is a widely used indicator of inflation (or deflation) in Canada.

### *DEX 91-Day T-Bills Index*

An index maintained by PC Bond that represents the performance of Government of Canada 91-day Treasury Bills.

### *DEX Long Bond Index*

An index maintained by PC Bond that tracks the performance of most marketable, domestically issued, Canadian bonds with terms to maturity of more than 10 years. This index is comprised of Canada’s, provincial, municipal and AAA-through BBB-rated corporate issuers.

### *DEX Long Government Bond Index*

An index maintained by PC Bond that tracks the performance of bonds issued by the government of Canada (including crown corporations), provincial governments (including provincially guaranteed securities) and municipal governments with terms to maturity of more than 10 years.

### *DEX Real Return Bond Index*

An index maintained by PC Bond that tracks the performance of real return (inflation-linked) bonds issued in Canada with terms to maturity of more than one year and a minimum credit rating of BBB (low).

### *DEX Universe Bond Index*

An index maintained by PC Bond that tracks the performance of most marketable, domestically issued, Canadian bonds with terms to maturity of more than one year. This index is comprised of Canada’s, provincial, municipal and AAA-through BBB-rated corporate issuers.

### *HFRX Global Investable Index (Hedged C\$)*

An index maintained by the Hedge Fund Research, Inc. (HFR) that utilizes an objective rules-based methodology to diversify across hedge fund managers that have low correlations to traditional asset classes. This index is rebalanced quarterly and is passively investable. This is a US dollar denominated index where the US currency exposure is passively hedged back into Canadian dollars.

### *ICREIM/IPD Large Institutional All Property Index*

An index maintained by the Institute of Canadian Real Estate Fund Managers/International Property Databank that measures the total return from the six largest Canadian peer funds, which individually have real estate portfolios valued greater than \$1.5 billion.

### *MSCI ACWI (Morgan Stanley Capital International All Country World Index)*

An index maintained by the MSCI Index Committee designed to measure market equity performance of developed and emerging markets. The MSCI ACWI is a free float-adjusted market capitalization index that is calculated on a total return basis, which includes re-investment of net dividends after deduction of withholding taxes. As of December 31, 2010, the MSCI ACWI consisted of 45 country indices comprising 24 developed and 21 emerging market indices representing approximately 85% of the market value of securities listed in the included countries.

### *MSCI EAFE (Morgan Stanley Capital International – Europe, Australasia, Far East)*

An index maintained by the MSCI Index Committee that is designed to measure developed public market equity performance, excluding the US and Canada. As of May 27, 2010, the MSCI EAFE Index consisted of 22 developed market country indices representing approximately 85% of the market value of securities listed in the included countries.

# GLOSSARY

## *MSCI Emerging Markets Net Index*

*An index maintained by the MSCI Index Committee that is designed to measure emerging public market equity performance net of withholding taxes. As of May 27, 2010, the MSCI Emerging Market Index consisted of 21 emerging market country indices.*

## *Russell 2500 Index*

*An index maintained by Russell Investments that measures the performance of the 2500 smallest companies in the Russell 3000. The Russell 2500 is taken to represent small and mid-cap US equities.*

## *S&P/TSX Composite Capped Index*

*An index maintained by the S&P Canadian Index Committee that measures the return on the largest companies and trust units listed on the Toronto Stock Exchange. Any stock in the S&P/TSX Capped Composite Index whose float capitalization exceeds 10% of the Index is capped at 10% during the quarterly rebalancing process.*

## *Standard & Poor's 500 Index*

*An index maintained by the Standard & Poor's Index Committee that includes a representative sample of 500 leading operating companies in the US economy to create a broad market portfolio representing approximately 75% of the market capitalization of US public equities.*



# 2014 DIRECTORY

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**Aditya Kaul**

**Paul Rogers (Vice-Chair)**

## Committees 2014

### *Actuarial Committee*

**Phyllis Clark (Chair)**

**Estelle Lo**

**Paul Rogers**

### *Audit Committee*

**Nancy Walker (Chair)**

**Paul Rogers**

**Gillian (Gill) Danby**

### *Investment Committee*

**Jonathan (Jake) Gebert (Chair)**

**Aditya Kaul**

**Phyllis Clark**

**Geoffrey Hale**

**Damon Williams**

**Bob Normand**

**Andrew Tambone**