Financial Statements

December 31, 2014 and 2013

(With Independent Auditors' Report Thereon)

BATCHELOR, TILLERY & ROBERTS, LLP

CERTIFIED PUBLIC ACCOUNTANTS
POST OFFICE BOX 18068
RALEIGH, NORTH CAROLINA 27619

RONALD A. BATCHELOR ANN H. TILLERY FRANKLIN T. ROBERTS WM. JAMES BLACK, JR. SCOTT E. CABANISS 3605 GLENWOOD AVENUE, SUITE 350 RALEIGH, NORTH CAROLINA 27612 TELEPHONE (919) 787-8212 FACSIMILE (919) 783-6724

Independent Auditors' Report

The Executive Committee International Union of Pure and Applied Chemistry:

Report on the Financial Statements

We have audited the accompanying financial statements of International Union of Pure and Applied Chemistry ("IUPAC"), which comprise the statements of financial position as of December 31, 2014 and 2013, and the related statements of activities, functional expenses, and cash flows for the years then ended, and the related notes to the financial statements.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation 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 audits. We conducted our audits in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of 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 the auditors' 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, the auditors 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. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant 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 referred to above present fairly, in all material respects, the financial position of IUPAC as of December 31, 2014 and 2013, and the changes in its net assets and its cash flows for the years then ended in accordance with accounting principles generally accepted in the United States of America.

Batchelon, Tillery & Roberts, LLP

July 8, 2015

Statements of Financial Position

December 31, 2014 and 2013

	<u>2014</u>	<u>2013</u>
<u>Assets</u>		
Current assets:		
Cash and cash equivalents	\$ 694,098	402,248
Subscriptions receivable (net of allowance for doubtful		
accounts of \$74,674 in 2014 and \$36,700 in 2013)	114,821	72,000
Accrued interest receivable	20,010	-
Inventories	34,045	31,052
Prepaid expenses	6,650	1,853
Total current assets	869,624	507,153
Investments, at market value	3,669,326	3,897,078
Furniture, fixtures, and equipment, net	9,744	26,696
Deposits	3,565	-
	\$ 4,552,259	4,430,927
Liabilities and Net Assets		
Current liabilities:		
Accounts payable and accrued expenses	153,548	107,567
Unearned subscriptions	212,097	99,275
Total current liabilities	365,645	206,842
Commitments		
Net assets:		
Unrestricted	3,897,323	3,955,711
Temporarily restricted	96,934	76,017
Permanently restricted	192,357	192,357
Total net assets	4,186,614	4,224,085
	\$ 4,552,259	4,430,927

Statements of Activities

Year ended December 31, 2014, with comparative totals for 2013

	Unrestricted	Temporarily restricted	Permanently restricted	Total	<u>2013</u>
Support:					
Grants and contributions	\$ 12,496	58,751	-	71,247	64,990
National subscriptions and	912,351			912,351	898,072
service charges Affiliate membership program	40,291	-	_	40,291	42,937
Attitude membership program	40,271			40,271	42,731
Total support	965,138	58,751		1,023,889	1,005,999
Other revenue:					
Publications	99,217	-	-	99,217	563,844
Investment return, net	105,146	9,958	-	115,104	409,362
Total other revenue	204,363	9,958		214,321	973,206
Total support and other revenue	1,169,501	68,709	-	1,238,210	1,979,205
Net assets released from					
restrictions	47,792	(47,792)	-	_	-
1 0012 20010 110	1,217,293	20,917	_	1,238,210	1,979,205
Expenses:					
Program and publications	517,273	-	-	517,273	1,322,532
Management and general	758,408	-		758,408	869,322
Total expenses	1,275,681	-		1,275,681	2,191,854
(Decrease) increase in net assets	(58,388)	20,917	-	(37,471)	(212,649)
Net assets, beginning of year	3,955,711	76,017	192,357	4,224,085	4,436,734
Net assets, end of year	\$ 3,897,323	96,934	192,357	4,186,614	4,224,085

Statements of Activities, Continued

Year ended December 31, 2013

		Unrestricted	Temporarily restricted	Permanently restricted	Total
Support:					
Grants and contributions National subscriptions and	\$	48,990	16,000	-	64,990
service charges		898,072	-	-	898,072
Affiliate membership program		42,937	_	-	42,937
Total support		989,999	16,000		1,005,999
Other revenue:					
Publications		563,844	_	-	563,844
Investment return, net		399,645	9,717	-	409,362
Total other revenue		963,489	9,717		973,206
Total support and other revenue		1,953,488	25,717	- -	1,979,205
Net assets released from					
restrictions		558	(558)	-	
		1,954,046	25,159	_	1,979,205
Expenses:					
Program and publications		1,322,532	-	-	1,322,532
Management and general	•	869,322	-		869,322
Total expenses		2,191,854	-		2,191,854
(Decrease) increase in net assets		(237,808)	25,159	-	(212,649)
Net assets, beginning of year		4,193,519	50,858	192,357	4,436,734
Net assets, end of year	\$	3,955,711	76,017	192,357	4,224,085

Statements of Functional Expenses

Year ended December 31, 2014, with comparative totals for 2013

	•	Program and	Management		
		publications	and general	<u>Total</u>	<u>2013</u>
Travel and subsistence	\$	356,649	99,554	456,203	698,402
Salaries		-	295,808	295,808	396,186
Contracted services		92,334	48,210	140,544	387,067
Payroll taxes and benefits		-	77,839	77,839	110,824
Office supplies and expenses		-	59,502	59,502	37,450
Administrative and project costs		36,716	10,764	47,480	302,885
Bad debt expense (recoveries)		- · · · · · · · ·	44,805	44,805	(9,500)
Audit and accounting		-	35,635	35,635	36,540
Building operations		-	27,091	27,091	25,539
Contributions		26,189	-	26,189	28,472
Utilities		-	21,879	21,879	17,162
Depreciation and amortization		-	21,746	21,746	26,594
Postage		2,471	5,766	8,237	68,038
Printing and publications		1,914	1,983	3,897	7,875
Prizes and awards		1,000	-	1,000	51,689
Miscellaneous			7,826	7,826	6,631
	\$	517,273	758,408	1,275,681	2,191,854

Statements of Functional Expenses, Continued

Year ended December 31, 2013

r	Program and publications		Management and general	Total
	,			
Travel and subsistence	\$	589,039	109,363	698,402
Salaries		_	396,186	396,186
Contracted services		377,926	9,141	387,067
Administrative and project costs		210,551	92,334	302,885
Payroll taxes and benefits		-	110,824	110,824
Postage		62,161	5,877	68,038
Prizes and awards		51,689	-	51,689
Office supplies and expenses		. -	37,450	37,450
Audit and accounting		-	36,540	36,540
Contributions		28,472	. · · -	28,472
Building operations		-	25,539	25,539
Depreciation and amortization		_	26,594	26,594
Utilities		_	17,162	17,162
Printing and publications		2,694	5,181	7,875
Bad debt recoveries		-	(9,500)	(9,500)
Miscellaneous			6,631	6,631
	\$	1,322,532	869,322	2,191,854

Statements of Cash Flows

Years ended December 31, 2014 and 2013

	<u>2014</u>	<u>2013</u>
Cash flows from operating activities:		
Decrease in net assets	\$ (37,471)	(212,649)
Adjustments to reconcile decrease in net assets to	` , ,	` , ,
net cash provided by (used in) operating activities:	1	
Depreciation and amortization	21,746	26,594
Realized gains on investments	(476,692)	(7,667)
Unrealized losses (gains) on investments	491,904	(257,296)
Changes in operating assets and liabilities:		,
Subscriptions receivable	(42,821)	30,600
Accrued interest receivable	(20,010)	-
Inventories	(2,993)	(1,115)
Prepaid expenses	(4,797)	39,472
Accounts payable and accrued expenses	45,981	25,651
Unearned subscriptions	112,822	(289,370)
Net cash provided by (used in) operating activities	87,669	(645,780)
Cash flows from investing activities:		
Proceeds from sales of investments	3,239,267	408,125
Purchases of investments	(3,026,727)	(39,894)
Deposits	(3,565)	-
Purchases of furniture, fixtures, and equipment	(4,794)	(2,795)
Net cash provided by investing activities	204,181	365,436
Net increase (decrease) in cash and cash equivalents	291,850	(280,344)
Cash and cash equivalents, beginning of year	402,248	682,592
Cash and cash equivalents, end of year	\$ 694,098	402,248

Notes to Financial Statements

December 31, 2014 and 2013

(1) Nature of Organization and Significant Accounting Policies

International Union of Pure and Applied Chemistry ("IUPAC"), founded in 1919, is a voluntary nongovernmental, nonprofit association of sixty-five national adhering organizations representing the chemists of their countries. Additionally, there are three associate national adhering organizations, sixty-nine company associates, and thirty-four associated organizations.

The objectives of IUPAC are to promote continuing cooperation among the chemists of the member countries, to study topics of international importance to pure and applied chemistry which need standardization or codification, to cooperate with other international organizations which deal with topics of a chemical nature, and to contribute to the advancement of pure and applied chemistry in all its aspects.

The significant accounting policies of IUPAC are as follows:

(a) Support, Revenues, and Expenses

IUPAC derives its revenues primarily from national subscriptions, publication income, and investment income. Support, revenues, and expenses are recorded on the accrual basis of accounting, and revenue received for future subscriptions is deferred until the applicable year.

Contributions received are measured at their fair values and are reported as an increase in net assets. IUPAC reports contributions of cash and other assets as restricted support if they are received with donor stipulations that limit the use of the donated assets or if they are designated as support for future periods. When a donor restriction expires, that is, when a stipulated time restriction ends or purpose restriction is accomplished, temporarily restricted net assets are reclassified to unrestricted net assets and reported in the statement of activities as net assets released from restrictions. Donor restricted contributions whose restrictions are met in the same reporting period are reported as unrestricted support.

(b) Endowment Funds

The Executive Committee of IUPAC has interpreted relevant state law as requiring the preservation of the fair value of the original gift as of the gift date of the donor-restricted endowment funds absent explicit donor stipulations to the contrary. As a result of this interpretation, IUPAC classifies as permanently restricted net assets (a) the original value of gifts donated to the permanent endowment, (b) the original value of subsequent gifts to the permanent endowment, and (c) accumulations to the permanent endowment made in accordance with the direction of the applicable donor gift instrument at the time the accumulation is added to the fund. The remaining portion of the donor-restricted endowment fund that is not classified in permanently restricted net assets is classified as temporarily restricted net assets until those amounts are appropriated for expenditure by IUPAC in a manner consistent with the relevant endowment fund. IUPAC considers the following factors in making a determination to appropriate or accumulate donor-restricted endowment funds:

Notes to Financial Statements, Continued

December 31, 2014 and 2013

(1) Nature of Organization and Significant Accounting Policies, Continued

(b) Endowment Funds, Continued

- (1) The duration and preservation of the fund
- (2) The purposes of the organization and the donor-restricted endowment fund
- (3) General economic conditions
- (4) The possible effect of inflation and deflation
- (5) The expected total return from income and the appreciation of investments
- (6) Other resources of the organization
- (7) The investment policies of the organization

Funds with Deficiencies

From time to time, the fair value of assets associated with individual donor-restricted endowment funds may fall below the level that the donor requires the organization to retain as a fund of perpetual duration. In accordance with accounting principles generally accepted in the United States of America ("GAAP"), deficiencies of this nature are reported in unrestricted net assets. There were no such deficiencies as of December 31, 2014 and 2013.

Return Objectives and Risk Parameters

IUPAC has adopted investment and spending policies for endowment assets that attempt to provide a predictable stream of funding to programs supported by its endowment while seeking to maintain the purchasing power of the endowment assets. Endowment assets include those assets of donor-restricted funds that IUPAC must hold in perpetuity or for a donor-specified period(s), as well as any board-designated funds. Under this policy, as approved by the Executive Committee, the endowment assets are invested in a manner that is intended to produce results that exceed the price and yield results of a benchmark portfolio and its respective market index, while assuming a moderate level of investment risk. IUPAC expects its endowment funds, over time, to provide an average rate of return of approximately 4.5% annually. Actual returns in any given year may vary from this amount.

Strategies Employed for Achieving Objectives

To satisfy its long-term rate-of-return objectives, IUPAC relies on a total return strategy in which investment returns are achieved through both capital appreciation (realized and unrealized) and current yield (interest and dividends). IUPAC targets a diversified asset allocation for its entire investment portfolio that places an emphasis on mutual funds, bonds and cash equivalents to achieve its long-term return objectives within prudent risk constraints.

Notes to Financial Statements, Continued

December 31, 2014 and 2013

(1) Nature of Organization and Significant Accounting Policies, Continued

(b) Endowment Funds, Continued

Spending Policy and How the Investment Objectives Relate to Spending Policy

IUPAC has a policy of appropriating for distribution each year the interest income allocated to each of its endowment funds, with such allocation approximating a 4% return for both 2014 and 2013. In establishing this policy, management of IUPAC considered the long-term expected return on its endowment. This is consistent with IUPAC's objective to maintain the purchasing power of the endowment assets held in perpetuity or for a specified term as well as to provide additional real growth through new gifts and investment return.

(c) Cash and Cash Equivalents

Cash and cash equivalents include commercial checking and money market accounts. At year-end and throughout the year, IUPAC had on deposit with a financial institution amounts in excess of FDIC insurance limits of \$250,000. IUPAC has not experienced any losses in such accounts and believes it is not exposed to any significant credit risk on cash and cash equivalents.

(d) Allowance for Doubtful Accounts

An allowance is provided for uncollectible receivables equal to the losses that are estimated to be incurred in the collection of all receivables. The allowance is based on historical collection experience combined with a review of the current status of the existing receivables.

(e) Inventories

Inventories, consisting of various publications, are stated at the lower of cost or market, with cost determined on the weighted-average method.

(f) Fair Value Measurements

Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants. Relevant accounting standards establish a fair value hierarchy which requires an entity to maximize the use of observable inputs and minimize the use of unobservable inputs when measuring fair value. Three levels of inputs may be used to measure fair value:

Level 1: quoted prices (unadjusted) in active markets for identical assets or liabilities

Level 2: inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly or indirectly

Level 3: one or more significant inputs or significant value drivers are unobservable or based on market assumptions

Notes to Financial Statements, Continued

December 31, 2014 and 2013

(1) Nature of Organization and Significant Accounting Policies, Continued

(g) Investments

Investments in marketable securities are stated at fair market value. The fair value of mutual funds is based on quoted prices in active markets (Level 1). The fair values of bonds and fixed rate securities are based on information from pricing services and yields currently available on comparable securities (Level 2). Investment income (including gains and losses on investments, interest, and dividends) is included in the statements of activities as a change in unrestricted net assets, except for earnings on permanently restricted net assets which are reported as temporarily restricted.

(h) Furniture, Fixtures, and Equipment

Furniture, fixtures, and equipment are recorded at cost if purchased and fair value if contributed. Depreciation and amortization is provided over the estimated useful lives of the assets using the straight-line method.

(i) Income Taxes

IUPAC is exempt from federal and state income taxes under Section 501(c)(3) of the Internal Revenue Code and applicable state statutes. Management of IUPAC does not believe the financial statements include any uncertain tax positions. Tax years ending December 31, 2011 through December 31, 2014 remain open for the examination by taxing authorities as of the date of this report.

(j) Use of Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of changes in net assets during the reporting period. Accordingly, actual results could differ from those estimates.

Notes to Financial Statements, Continued

December 31, 2014 and 2013

2) Investments

IUPAC's investments were held by Wells Fargo Advisors in 2013 and part of 2014. All investments were transferred to and are held by BB&T Securities as of December 31, 2014. The following tables present the fair value of those investments (individual investment representing ten percent or more of net assets is separately identified):

			201	4	
		Number of shares/par	Level 1	Level 2	Total
Mutual funds:					
Federated Floating Rate Strategy Income		45,389	\$ 447,535	-	447,535
Other		- ,	<u>2,201,423</u> <u>2,648,958</u>		2,201,423 2,648,958
Corporate bonds (2.30% - 7.25%), with			_, ,		_,,
various maturities through February 2022	\$	984,000	•	1,020,368	1,020,368
			\$ 2,648,958	1,020,368	3,669,326
			201:	3	
	-	Number of shares/par	Level 1	Level 2	Total
Mutual funds		-	\$ 1,707,428	-	1,707,428
Corporate bonds (2.30% - 7.25%), with various maturities through February 2022	\$	1,250,000	·	1,346,830	1,346,830
Foreign bonds (3.25%-6.50%), with					
various maturities through July 2018	\$	600,000	-	842,820	842,820
			\$ 1,707,428	2,189,650	3,897,078

The cost of investments totaled \$3,671,726 and \$3,407,575 as of December 31, 2014 and 2013, respectively.

Investment return, net, consists of the following:

	<u>2014</u>	<u>2013</u>
Dividends and interest	\$ 151,728	147,560
Realized gains	476,692	7,667
Unrealized (losses) gains	(491,904)	257,296
Foreign exchange rate losses	(21,412)	(3,161)
	\$ 115,104	409,362

Notes to Financial Statements, Continued

December 31, 2014 and 2013

(3) Furniture, Fixtures, and Equipment

Furniture, fixtures, and equipment consist of the following:

	<u>2014</u>	<u>2013</u>
Equipment	\$ 71,217	66,423
Furniture and fixtures	48,877	48,877
Leasehold improvements	16,097	16,097
Website	_264,145	_264,145
	400,336	395,542
Less accumulated depreciation and amortization	(390,592)	(368,846)
	\$ 9,744	26,696

(4) <u>Leases</u>

IUPAC leased its facilities under an operating lease, which began in March 1997. The lease had a term of ten years with options to extend the term of the lease for successive one-year periods not to exceed ten additional years. Building operating expenses totaled \$27,091 and \$25,539 in 2014 and 2013, respectively.

IUPAC entered into a lease for new office space beginning in May 2015 for an initial term of seventy-four months with a five-year renewal option.

IUPAC leases office equipment under operating lease agreements that expire at various dates through 2020. Equipment lease expense totaled approximately \$760 and \$501 for 2014 and 2013, respectively.

Future minimum rental payments required under these operating leases are as follows:

Year ending December 31,		
2015	. \$	34,744
2016		49,024
2017		50,333
2018		51,062
2019		52,194
Thereafter		_74,933
	\$	312,290

Notes to Financial Statements, Continued

December 31, 2014 and 2013

(5) Net Assets

Temporarily restricted net assets as of December 31, 2014 and 2013 consist of interest earned on permanently restricted net assets and four grants in 2014 and two grants in 2013 that were not fully expended.

Permanently restricted net assets include donor-restricted endowment funds and consist of the Paulo Fransozini Endowment Fund totaling \$5,659, the CHEMRAWN VII Fund totaling \$48,698, and the Samsung General Chemicals Endowment Fund totaling \$138,000, as of December 31, 2014 and 2013. Income earned by the Paulo Fransozini Endowment Fund is restricted for awards to science students to attend particular IUPAC meetings. Income earned by the CHEMRAWN VII Fund is restricted for awards to support the work of the CHEMRAWN VII Future Actions Committee. Income earned by the Samsung General Chemicals Endowment Fund is restricted for awards to students and researchers in the field of polymer science and support of educational projects of the IUPAC Macromolecular Division. Such income is recorded as temporarily restricted when earned.

The following represents changes in endowment net assets (all donor-restricted endowment funds) for 2014 and 2013 (does not include temporarily restricted net assets of \$40,058 related to four grants as of December 31, 2014 and \$16,000 related to two grants as of December 31, 2013):

	Temporarily restricted	Permanently restricted	<u>Total</u>
Endowment net assets, December 31, 2012	\$ 50,858	192,357	243,215
Investment interest income	9,717	-	9,717
Appropriation of endowment assets for expenditure	(558)	-	(558)
Endowment net assets, December 31, 2013	60,017	192,357	252,374
Investment interest income	9,958	-	9,958
Appropriation of endowment assets for expenditure	(13,099)	-	(13,099)
Endowment net assets, December 31, 2014	\$ 56,876	192,357	249,233

Notes to Financial Statements, Continued

December 31, 2014 and 2013

(6) Concentrations of Credit and Market Risk

Financial instruments that potentially expose IUPAC to concentrations of credit and market risk consist primarily of cash equivalents, investments, and subscriptions receivable. Cash equivalents and investments are held by BB&T Securities, and one investment exceeds ten percent of net assets (see footnote 2). Subscriptions receivable are amounts due from national adhering organizations. Management provides for probable uncollectible amounts through a provision for bad debt expense and an adjustment to a valuation allowance based on its assessment of the current status of individual accounts.

National adhering organizations are billed their annual national subscriptions in their national foreign currency. As a result, IUPAC assumes the risk of changes in the foreign currency rates in relation to the United States dollar on these billings. IUPAC has made purchases of certain foreign currency-denominated investments in an effort to reduce the risk of foreign currency exchange losses on these billings when collected.

(7) Retirement Plans

IUPAC has established a defined contribution retirement plan. The plan covers all employees and offers 100% vesting after one year of service. IUPAC made no contributions to the plan in 2014 or 2013.

(8) Subsequent Events

The date to which events occurring after December 31, 2014, the date of the most recent statement of financial position, have been evaluated for possible adjustment to the financial statements or disclosure is July 8, 2015, the date the financial statements were available to be issued.