

# Air Products and Chemicals, Inc.

Organization Type: Companies > Publicly Held Companies > Leadership 1000 - The Current Top 1000 U.S. Companies > Leadership 500 - The Current Top 500 U.S. Companies > Companies Located in the U.S. > Parent Companies > Leadership 1000 - The Historical Archive > Leadership 1000 - 2008 > Leadership 500 - The Historical Archive > Leadership 500 - 2008 > Leadership 1000 - 2009 > Leadership 500 - 2009 > Leadership 1000 - 2010 > Leadership 500 - 2010 > Energy Industry Organizations > Energy Industry Service Providers, Oilfield Services Companies > Energy Industry Equipment and Service Providers, Consultants > Energy Industry Equipment Manufacturers, Contractors > Leadership 1000 - 2011 > Leadership 500 - 2011 > Leadership 1000 - 2012 > Leadership 500 - 2012

7201 Hamilton Boulevard, Allentown, PA 18195-1501

Tel: (610) 481-4911

Fax: (610) 481-5900

<http://www.airproducts.com>

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**Business Description:** Air Products and Chemicals supplies industrial gases, specialty and intermediate chemicals, and electronics and performance materials and related services.

**Ownership Type:** Publicly Traded

**Stock Exchange:** NYSE

**Ticker Symbol:** APD

**Number of Employees:** 21,600

**Incorporated:** October 1940, DE

**Annual Revenue:** Over \$10,180 million

**Leadership 1000 Rank (2013):** 302

**Leadership 1000 Rank (2012):** 281

**Leadership 1000 Rank (2011):** 288

**Leadership 1000 Rank (2010):** 287

**Leadership 1000 Rank (2009):** 269

**Association Memberships:** American Chemistry Council; Business Roundtable; Canadian Hydrogen and Fuel Cell Association; Coal Utilization Research Council; Compressed Gas Association, Inc.; Fuel Cell and Hydrogen Energy Association; Gasification Technologies Council; Northeast Gas Association

**Auditor:** KPMG LLP

**Coalition Memberships:** Alliance USA; America Leads on Trade

**Federal/National Regulator:** United States Department of Energy Federal Energy Regulatory Commission

**Independent System Operator (ISO) Participation:** Electric Reliability Council of Texas, Inc.; PJM Interconnection, LLC

**Legal Representation:** Germer, PLLC

**Oversight Authority:** United States Department of Energy

## Officers and Management



Chairman, President and  
Chief Executive Officer (610)  
**John E. McGlade** 481-6597

*Member of the Board*

Start Date: 2008

Note: Will retire as President and CEO in 2014.

[mcgladje@airproducts.com](mailto:mcgladje@airproducts.com)

Fax: (610) 481-5900

Date of Birth: 1954

Education: Lehigh 1976 BS, 1980 MBA  
Current Memberships: Member, Society of Chemical Industry

Career: Trustee, Board of Trustees, Lehigh University (2007-2013); Director, Board of Directors, American Chemistry Council; President and Chief Executive Officer, Air Products and Chemicals, Inc. (2007-2008); Trustee, Board of Trustees, Manufacturers Alliance/MAPI Inc. (2006-2007); President and Chief Operating Officer, Air Products and Chemicals, Inc. (2006-2007); Group Vice President, Chemicals Group, Air Products and Chemicals, Inc. (2003-2006); Vice President and General Manager, Performance Materials Division, Air Products and Chemicals, Inc. (2001-2003); Vice President, Business Divisions, Chemicals Group, Air Products and Chemicals, Inc. (1996-2001); General Manager, Chemical and Process Industries, Air Products and Chemicals, Inc. (1994-1996)

Senior Vice President and Chief  
Financial Officer **M. Scott Crocco** (610) 481-7932

Start Date: 2013

Reports to: John E. McGlade, Chairman, President and Chief Executive Officer, Air Products and Chemicals, Inc.

Fax: (610) 481-5900

Date of Birth: 1964

Education: Bucknell 1986 BS; Cornell 1990 MBA

Career: Vice President and Corporate Controller, Air Products and Chemicals, Inc. (2007-2013); Chief Accounting Officer, Air Products and Chemicals, Inc. (2007-2008); Corporate Controller, Air Products and Chemicals, Inc. (2006-2007); Director, Corporate Decision Support, Air Products and Chemicals, Inc. (2003-2006); Controller, Electronics Division, Air Products and Chemicals, Inc. (2001-2003); Manager, Financial Analysis and Planning, Corporate Treasury, Air Products and Chemicals, Inc. (2000-2001)

- Executive Secretary  
**Paula Buchvalt** (610) 481-4911  
Reports to: M. Scott Crocco, Senior Vice President and Chief Financial Officer, Air Products and Chemicals, Inc.  
Fax: (610) 481-5900
- Senior Vice President, Supply Chain  
**Patricia A. "Pam" Mattimore** (610) 481-4911  
Start Date: 2013  
[mattimpa@airproducts.com](mailto:mattimpa@airproducts.com)  
Fax: (610) 481-5900  
Education: Lafayette 1982 BA  
Career: Vice President and General Manager, Performance Materials Division, Chemicals Group, Air Products and Chemicals, Inc. (2009-2013); Vice President, Energy and Materials, Air Products and Chemicals, Inc. (2005-2009); President, Air Products Electronic Chemicals (APEC), Gases and Equipment Group, Air Products and Chemicals, Inc. (2000-2005)
- Senior Vice President and General Manager, Electronics, Performance Materials, Strategy and Technology  
**Guillermo Novo** (610) 481-4911  
Start Date: 2012  
Reports to: John E. McGlade, Chairman, President and Chief Executive Officer, Air Products and Chemicals, Inc.  
[novog@airproducts.com](mailto:novog@airproducts.com)  
Fax: (610) 481-5900  
Education: Central Florida 1984 BSIE; Michigan 1986 MBA  
Career: Business Group Vice President, Dow Coating Materials, The Dow Chemical Company; Business Group Vice President, Dow Polyurethanes, The Dow Chemical Company; Vice President, Business Director, Process Chemicals and New Platforms, Rohm and Haas Company; Vice President and Business Unit Director, Consumer and Industrial Specialties, Rohm and Haas Company; Vice President and Regional Director, Latin America, Rohm and Haas Company
- Senior Vice President, General Counsel and Chief Administrative Officer [Chief Compliance Officer]  
**John D. Stanley** (610) 481-3552  
Start Date: 2013  
Reports to: John E. McGlade, Chairman, President and Chief Executive Officer, Air Products and Chemicals, Inc.  
[stanlejd@airproducts.com](mailto:stanlejd@airproducts.com)  
Fax: (610) 481-5900  
Date of Birth: 1958  
Education: Lafayette 1980 BA; Pennsylvania 1983 JD  
Current Memberships: Member, American Bar Association  
Career: Senior Vice President and General Counsel, Air Products and Chemicals, Inc. (2009-2013); Assistant General Counsel, Corporate and Commercial, Americas and Europe, Air Products and Chemicals, Inc. (2007-2009); Assistant General Counsel, Corporate and Commercial, Americas, Air Products and Chemicals, Inc. (2004-2007); Senior Mergers and Acquisitions Lawyer, Law Group, Air Products and Chemicals, Inc.; Group Counsel, Chemicals Group, Air Products and Chemicals, Inc.; Attorney, Law Group, Air Products and Chemicals, Inc.; Lawyer, Drinker Biddle & Reath LLP; Clerk, The Honorable Norma Shapiro, Chambers of Senior Judge Norma L. Shapiro, United States District Court for the Eastern District of Pennsylvania
- President, China [Senior Vice President and General Manager, Tonnage Gases, Equipment and Energy]  
**Stephen J. "Steve" Jones** 86 (21) 38962000  
Start Date: 2011  
Fax: 86 (21) 50809831  
[jonesj@airproducts.com](mailto:jonesj@airproducts.com)  
East Wing, Floor 1, Building #88, Lane 887, Zu Chongzhi Rd. Zhangjiang Hi-Tech Park, Shanghai 201203, China  
Education: Bloomsburg 1983 BS; Temple 1988 MBA; Pennsylvania 1989 JD  
Current Memberships: Member, New Jersey State Bar Association; Member, Pennsylvania Bar Association, Pennsylvania Bar Association  
Career: Senior Vice President, General Counsel and Secretary, Air Products and Chemicals, Inc. (2007-2009); Vice President, General Counsel and Secretary, Air Products and Chemicals, Inc. (2007-2008); Vice President and Associate General Counsel, Air Products and Chemicals, Inc. (2007); Vice President and General Manager, Industrial Chemicals Division, Chemicals Group, Air Products and Chemicals, Inc. (2003-2007); California Area Manager, Energy and Process Industries Division, Air Products and Chemicals, Inc. (2001-2003); Attorney, Law Group, Air Products and Chemicals, Inc.; Corporate Lawyer, Dechert LLP
- Vice President, Chief Risk Officer and Treasurer  
**George G. Bitto** (610) 481-4911  
Start Date: 2006  
[bittogg@apci.com](mailto:bittogg@apci.com)  
Fax: (610) 481-5900  
Education: Villanova; Wharton MBA  
Career: Vice President and Controller, Gases and Equipment Group, Air Products and Chemicals, Inc.; General Manager, North America Liquid Bulk Business, Air Products and Chemicals, Inc.
- Vice President, Global Operations  
**Richard Boocock** (610) 481-4911  
Start Date: 2012  
Fax: (610) 481-5900  
Education: U Birmingham (UK) 1982 BS; Henley Col (UK) MBA  
Career: Vice President, Information Technology and Chief Information Officer, Air Products and Chemicals, Inc. (2008-2012); Global Program Lead, SAP Implementation, Air Products and Chemicals, Inc. (2001-2004); Vice President, Tonnage Gases, Europe and Middle and Middle East, Air Products and Chemicals, Inc. (2004-2008)
- Vice President, Human Resources  
**Jennifer L. Grant** (610) 481-4911  
Start Date: 2013  
Reports to: John D. Stanley, Senior Vice President, General Counsel and Chief Administrative Officer, Air Products and Chemicals, Inc.  
[grantjl@apci.com](mailto:grantjl@apci.com)  
Fax: (610) 481-5900  
Education: Michigan; Purdue MBA  
Career: Vice President, Human Resources, Specialty Products and Oncology, Pfizer Canada Inc.
- Vice President and General Manager, Healthcare, Europe  
**Caroline Lloyd** 44 (1932) 249 200  
Start Date: 2007  
Hersham Place Technology Park, Molesey Road, Walton-on-Thames, Surrey, England KT12 4RZ, United Kingdom

Vice President, Electronics-Asset Management and Supply Chain **Patrick F. Loughlin** (610) 481-4911  
Start Date: 2012  
[loughlpf@apci.com](mailto:loughlpf@apci.com)  
Fax: (610) 481-5900  
Education: Naval Acad 1981 BS; Rutgers 1992 MS; Georgia Tech 1998 MSM  
Career: Vice President, Environment, Health, Safety and Quality, Air Products and Chemicals, Inc. (2009-2012); Director, Environment, Health and Safety, Americas, Air Products and Chemicals, Inc. (2008-2009); Vice President and General Manager, Chemicals, Air Products Asia, Inc. (2005-2008); Vice President and General Manager, Chemicals, Asia, Chemicals Group, Air Products and Chemicals, Inc.

Vice President, Continuous Improvement **Alexander W. "Alex" Masetti** (610) 481-2408  
Start Date: 2009  
Fax: (610) 481-5900  
[masettaw@apci.com](mailto:masettaw@apci.com)  
Date of Birth: 1959  
Education: Lafayette 1981 BSME; Lehigh 1986 MBA  
Career: Vice President, Tonnage Gases, North America, Gases and Equipment Group, Air Products and Chemicals, Inc. (2004-2009); Director, Investor Relations, Air Products and Chemicals, Inc. (2000-2004); Vice President, Daido Air Products Electronics, Inc.; Vice President, Air Products San Fu Co. Ltd.; Engineer, Air Products and Chemicals, Inc.

Vice President, Information Technology and Chief Information Officer **Kevin B. Michaelis** (610) 481-4911  
Start Date: 2012  
Fax: (610) 481-5900  
Education: Drexel 1984 BS; Temple 1992 MBA  
Career: Regional Vice President, Liquid Bulk and Generated Gases, Europe, Gases and Equipment Group, Air Products and Chemicals, Inc. (2011-2012)

Vice President and General Manager, Electronics **Wayne M. Mitchell** (610) 481-4911  
Start Date: 2011  
Fax: (610) 481-5900  
[mitchewm@airproducts.com](mailto:mitchewm@airproducts.com)  
Date of Birth: 1953  
Career: Vice President, Global Business Support Services, Air Products and Chemicals, Inc. (2009-2011); Vice President and General Manager, Performance Materials Division, Chemicals Group, Air Products and Chemicals, Inc. (2003-2009); Regional Vice President and General Manager, Chemicals, Air Products Asia, Inc. (1998-2001)

Vice President, Engineering and Manufacturing **Thomas E. "Tom" Mutchler** (610) 481-4911  
Start Date: 2012  
Fax: (610) 481-5900  
Date of Birth: 1960  
Education: Lehigh 1983 BS, 1990 MBA  
Career: Vice President, Engineering, North America and Energy Product Supply, Air Products and Chemicals, Inc. (2010-2012)

Vice President, Environment, Health, Safety and Quality and Corporate Chief Engineer **Joseph M. "Joe" Pietrantonio** (610) 481-7864  
Start Date: 2012  
Fax: (610) 481-5900  
[pietrajm@apci.com](mailto:pietrajm@apci.com)  
Date of Birth: 1959  
Education: Lehigh 1982 BS, 1986 MS  
Career: Trustee, Board of Trustees, Manufacturers Alliance/MAPI Inc. (2010-2012); Vice President, Global Operations, Air Products and Chemicals, Inc. (2007-2012); Standards Council Chairman, Compressed Gas Association, Inc. (2008-2009); Trustee, Board of Trustees, Manufacturers Alliance/MAPI Inc. (2007-2008); Vice President, Global Operations, Americas, Air Products and Chemicals, Inc. (2004-2007); Vice President, Global Engineering, Europe, Air Products and Chemicals, Inc.; Manager, European Engineering and Equipment Manufacturing, Air Products and Chemicals, Inc.

Vice President, Energy and Materials and General Services and Chief Procurement Officer **Laurie K. Stewart, CPA** (610) 481-7070  
Start Date: 2009  
[stewarlk@apci.com](mailto:stewarlk@apci.com)  
Fax: (610) 481-5900  
Education: Bowling Green State 1981 BSBA  
Career: Vice President, Global Decision Support, Air Products and Chemicals, Inc. (2008-2009); Vice President, Tonnage Gases, Equipment and Energy Controller, Gases and Equipment Group, Air Products and Chemicals, Inc. (2006-2008); Vice President and Treasurer, Air Products and Chemicals, Inc. (2003-2006); Vice President and Treasurer, Pennzoil-Quaker State Co.

Vice President, Taxes **Charles G. "Chuck" Stinner** (610) 481-2978  
Start Date: 2007  
Fax: (610) 481-5900  
[stinnecg@apci.com](mailto:stinnecg@apci.com)  
Date of Birth: 1963  
Education: Penn State 1985 BS; Cornell 1988 JD

Vice President, Global Business Support Services **Thomas J. "Tom" Ward** (610) 481-4911  
Start Date: 2011  
[wardtj@airproducts.com](mailto:wardtj@airproducts.com)  
Fax: (610) 481-5900  
Date of Birth: 1959  
Education: Lehigh 1981 BS, 1986 MBA  
Career: Vice President, Platform Renewal, Merchant Gasses, Gases and Equipment Group, Air Products and Chemicals, Inc. (2010-2011); Chairman, Compressed Gas Association, Inc. (2010-2011); Vice President, Merchant Gases, North America, Gases and Equipment Group, Air Products and Chemicals, Inc. (2007-2010); Vice Chairman, Compressed Gas Association, Inc. (2009-2010); Director, Board of Directors, Compressed Gas Association, Inc. (2008-2009); Vice President, Integrated Supply Chain, Air Products and Chemicals, Inc. (2004-2007); Business Director, Air Products and Chemicals, Inc.; Development Engineer, Air Products and Chemicals, Inc.

Corporate Secretary and Chief  
Governance Officer

**Mary T. Afflerbach** (610) 481-6807

Start Date: 2009

Reports to: John D. Stanley, Senior Vice President, General  
Counsel and Chief Administrative Officer, Air Products and  
Chemicals, Inc.

[afflermt@apci.com](mailto:afflermt@apci.com)

Fax: (610) 481-5900

Education: Virginia 1980 BA; SUNY (Buffalo) 1983 JD  
Current Memberships: Member, American Bar Association;  
Member, Society of Corporate Secretaries and Governance  
Professionals, Inc.

Career: Assistant General Counsel, Securities and Corporate  
Governance, Air Products and Chemicals, Inc. (2004-2009); Tax  
Attorney, Air Products and Chemicals, Inc.

Corporate Counsel **Kevin A Ormerod** (610) 481-4911

Fax: (610) 481-5900

Director, Federal Government Relations

**Richard F. Goodstein** (202) 783-1555

Federal Legislative Issues: Alternative Energy; Deregulation;  
Electricity; Environmentally Preferable Products; Home  
Healthcare; Research and Development; Trade

Fax: (202) 659-1328

[richard@richardgoodstein.com](mailto:richard@richardgoodstein.com)

Affiliation: President, Goodstein and Associates

901 K Street, NW, Suite 1250, Washington, DC 20001

Education: Wesleyan U 1974 BA; Georgetown 1978 JD

Career: Divisional Vice President, Browning-Ferris Industries  
(1986-1998); Associate, Wilmer, Cutler & Pickering  
(1979-1986); Law Clerk, Chief Judge William Bryant, U.S.  
District Court, Washington, DC (1978-1979); Legislative  
Assistant, Office of Senator Abraham A. Ribicoff (D-CT), United  
States Senate (1974-1978)

Director, Corporate Relations

**Timothy J. "Tim" Holt** (610) 481-4453

[holtjt@airproducts.com](mailto:holtjt@airproducts.com)

Fax: (610) 481-5900

Education: Edinboro

Global Director, Hydrogen Energy Systems

**Edward F. "Ed" Kiczek** (610) 481-4705

[kiczeked@apci.com](mailto:kiczeked@apci.com)

Fax: (610) 481-5900



Director, Investor Relations

**Simon R. Moore** (610) 481-7461

Start Date: 2010

[mooresr@airproducts.com](mailto:mooresr@airproducts.com)

Fax: (610) 481-5900

Date of Birth: 1965

Education: Penn State 1986 BS; Pepperdine  
1994 MBA

Career: Global Director, Electronic Materials, Air Products and  
Chemicals, Inc. (2007-2010); Director, Fab Development,  
Electronics, Air Products and Chemicals, Inc. (2004-2007);  
Tonnage Business Manager, West Gulf Coast Pipeline System,  
Air Products and Chemicals, Inc.; Sales Representative, Merchant  
Gases, Air Products and Chemicals, Inc.

Director, Corporate Communications

**George Noon** (610) 481-1990

Start Date: 2013

[noong@airproducts.com](mailto:noong@airproducts.com)

Fax: (610) 481-5900

Director, Advanced Integration Materials

**Ed Shoher** (610) 481-4911

Fax: (610) 481-5900

Career: Chief Executive Officer, DuPont Air Products  
NanoMaterials L.L.C.; Chief Operating Officer, DuPont Air  
Products NanoMaterials L.L.C.

Assistant General Counsel, Litigation

**Stephen S. "Steve" Ferrara** (610) 481-7352

Fax: (610) 481-5900

[ferrarss@apci.com](mailto:ferrarss@apci.com)

Assistant General Counsel, Intellectual Property

**Mark L. Rodgers** (610) 481-4911

Fax: (610) 481-5900

[rodgerml@apci.com](mailto:rodgerml@apci.com)

Manager, Corporate Public Relations (**Vacant**) (610) 481-4911

Fax: (610) 481-5900

Manager, Corporate Sustainability

**Julie O'Brien** (610) 481-4364

Start Date: 2010

Fax: (610) 481-5900

Education: Notre Dame 1986 BS; Lehigh 1996 MS

Career: Production Engineer, Air Products and Chemicals, Inc.

Senior Communications Coordinator

**Debbie Bauer** (610) 481-8061

[bauerda@airproducts.com](mailto:bauerda@airproducts.com)

Fax: (610) 481-5900

## Air Products Foundation

7201 Hamilton Boulevard, Allentown, PA 18195-1501

Tel: (610) 481-4453

President **Timothy J. "Tim" Holt** (610) 481-4453

[holtjt@airproducts.com](mailto:holtjt@airproducts.com)

Fax: (610) 481-5900

Education: Edinboro

## Federal Government Affairs

### Washington D.C. Office

1101 Pennsylvania Avenue, NW, Suite 510, Washington, DC  
20004

Tel: (202) 659-1324

Fax: (202) 659-1328

Director, Federal Government Relations

**Richard F. Goodstein** (202) 783-1555

Federal Legislative Issues: Alternative Energy; Deregulation;  
Electricity; Environmentally Preferable Products; Home  
Healthcare; Research and Development; Trade

Fax: (202) 659-1328

[richard@richardgoodstein.com](mailto:richard@richardgoodstein.com)

Education: Wesleyan U 1974 BA; Georgetown 1978 JD



Career: Divisional Vice President, Browning-Ferris Industries (1986-1998); Associate, Wilmer, Cutler & Pickering (1979-1986); Law Clerk, Chief Judge William Bryant, U.S. District Court, Washington, DC (1978-1979); Legislative Assistant, Office of Senator Abraham A. Ribicoff (D-CT), United States Senate (1974-1978)

## Air Products and Chemicals, Inc. Political Alliance

P.O. Box 441, Trexlertown, PA 18087

Tel: (610) 481-8586

Treasurer [and Manager, Shareholder Services]

**Linda Svoboda** (610) 481-6102

Start Date: 2012

## Federal Representation

### Capitol Counsel LLC

700 13th Street, NW, 2nd Floor, Washington, DC 20005

Tel: (202) 861-3200

Fax: (202) 861-3219

<http://www.capitolcounsel.com>

General Counsel

**Joshua Robert "Josh" Kardon** (202) 540-1960

Start Date: 2014

Fax: (202) 861-3219

[jkardon@capitolcounsel.com](mailto:jkardon@capitolcounsel.com)

Education: North Carolina 1984 BA, 1988 JD

Career: Senior Vice President, Capitol Hill Consulting Group (2012-2013); State Campaign Chair, Oregon Office, Hillary Clinton for President (2007-2008); Political Director, Ted Kulongoski for Governor (2006-2007); Chief of Staff, Portland Office, Office of Senator Ron Wyden (D-OR), United States Senate (1996-2010); Counsel/Legislative Director, Office of Representative Ron Wyden (D-OR, District 3), United States House of Representatives (1993-1996); Administrative Assistant, Office of Representative Barbara Boxer (D-CA, District 6), United States House of Representatives (1991-1992); Legislative Assistant, Office of Representative Barbara Boxer (D-CA, District 6), United States House of Representatives (1989-1991); Staff Director, Subcommittee on Government Activities and Transportation, Committee on Government Operations, United States House of Representatives (1992)

### Capitol Hill Consulting Group

499 South Capitol Street, SW, Suite 608, Washington, DC 20003

Tel: (202) 488-0101

Fax: (202) 488-0888

[info@caphillgrp.com](mailto:info@caphillgrp.com)

<http://www.caphillgrp.com>

### Goodstein and Associates

901 K Street, NW, Suite 1250, Washington, DC 20001

Tel: (202) 783-1555

Fax: (202) 659-1328

<http://www.richardgoodstein.com>

President **Richard F. Goodstein** (202) 783-1555

Federal Legislative Issues: Appropriations; Energy; Environment; Healthcare; Tax; Trade

Fax: (202) 659-1328

[richard@richardgoodstein.com](mailto:richard@richardgoodstein.com)

Education: Wesleyan U 1974 BA; Georgetown 1978 JD

Career: Divisional Vice President, Browning-Ferris Industries

(1986-1998); Associate, Wilmer, Cutler & Pickering

(1979-1986); Law Clerk, Chief Judge William Bryant, U.S.

District Court, Washington, DC (1978-1979); Legislative

Assistant, Office of Senator Abraham A. Ribicoff (D-CT), United

States Senate (1974-1978)

### The Grossman Group, LLC

1825 I Street, NW, Suite 600, Washington, DC 20006

Tel: (202) 207-3654

Lobbyist **Christopher K. "Chris" Bradish** (202) 207-3654

Start Date: 2011

Education: San Diego 2001 BA

Career: Legislative Director, Office of Senator Arlen Specter (D-

PA), United States Senate (2008-2011); Senior Policy Advisor,

Office of Senator Arlen Specter (R-PA), United States Senate

(2007-2008); Legislative Assistant, Office of Senator Arlen

Specter (R-PA), United States Senate (2004-2006); Legislative

Aide, Office of Senator Arlen Specter (R-PA), United States

Senate (2004-2005); Staff Assistant, Office of Senator Arlen

Specter (R-PA), United States Senate (2003-2004); Intern, United

States Department of State

Chief Executive Officer

**Lawrence C. "Larry" Grossman** (202) 207-3654

[larry@grossmanllc.com](mailto:larry@grossmanllc.com)

Education: Bard BA; Oxford (UK)

Career: Senior Vice President, Cassidy & Associates, Inc.

## State Government Affairs

### State Representation

#### Harris, DeVillie and Associates, Inc.

521 Laurel Street, Baton Rouge, LA 70801

Tel: (225) 344-0381

Fax: (225) 336-0211

<http://www.hdaissues.com>

## Major Subsidiaries and Divisions

### Gases and Equipment Group

7201 Hamilton Boulevard, Allentown, PA 18195-1501  
Tel: (610) 481-4911

Senior Vice President and General Manager,  
Tonnage Gases, Equipment and Energy

**Stephen J. "Steve" Jones** 86 (21) 38962000

Start Date: 2009

Reports to: John E. McGlade, Chairman, President and Chief Executive Officer, Air Products and Chemicals, Inc.

Fax: 86 (21) 50809831

[jonessj@airproducts.com](mailto:jonessj@airproducts.com)

Education: Bloomsburg 1983 BS; Temple 1988 MBA; Pennsylvania 1989 JD

Current Memberships: Member, New Jersey State Bar Association; Member, Pennsylvania Bar Association, Pennsylvania Bar Association

Career: Senior Vice President, General Counsel and Secretary, Air Products and Chemicals, Inc. (2007-2009); Vice President, General Counsel and Secretary, Air Products and Chemicals, Inc. (2007-2008); Vice President and Associate General Counsel, Air Products and Chemicals, Inc. (2007); Vice President and General Manager, Industrial Chemicals Division, Chemicals Group, Air Products and Chemicals, Inc. (2003-2007); California Area Manager, Energy and Process Industries Division, Air Products and Chemicals, Inc. (2001-2003); Attorney, Law Group, Air Products and Chemicals, Inc.; Corporate Lawyer, Dechert LLP

Senior Vice President and General Manager,  
Global Merchant Gases **Corning F. Painter** (610) 481-4911

Start Date: 2013

[paintecf@apci.com](mailto:paintecf@apci.com)

Date of Birth: 1962

Education: Carnegie Mellon 1984 BS

Career: Senior Vice President, Supply Chain, Air Products and Chemicals, Inc. (2012-2013); Senior Vice President, Corporate Strategy and Technology, Air Products and Chemicals, Inc. (2011-2012); Vice President and General Manager, Global Electronics, Gases and Equipment Group, Air Products and Chemicals, Inc. (2006-2011); Regional Vice President, Asia Electronics, Air Products Asia, Inc. (2004-2006); Regional Vice President, Electronics, Air Products Asia, Inc. (2002-2004); General Manager, European Electronics Division, Air Products and Chemicals, Inc. (2000-2002)

Vice President and General Manager,  
Merchant Gases, Europe **Ivo Bols** 44 (1932) 249 200

Start Date: 2012

[bolsi@airproducts.com](mailto:bolsi@airproducts.com)

Molesey Road, Walton-on-Thames, Surrey, England KT12 4RZ, United Kingdom

Date of Birth: 1961

Education: Leuven (Belgium) 1983, 1985 MBA

Career: Vice President and General Manager, Global Liquid Bulk, Generated Gases and Helium, Air Products and Chemicals, Inc. (2011-2012); Vice President and General Manager, Merchant Gases, Air Products Asia, Inc. (2007-2011); Vice President, Northern Continent and Global Packaged Gases Center of Excellence, Air Products and Chemicals, Inc. (2003-2007);

European Marketing Manager, Fabrication Industries, Air Products and Chemicals, Inc. (1996-1999); Financial Analyst, Air Products and Chemicals, Inc. (1988-1990)

Vice President and General Manager, Tonnage Gases **Jeffry L. Byrne** (610) 481-5969

Start Date: 2004

[byrnejl@airproducts.com](mailto:byrnejl@airproducts.com)

Date of Birth: 1954

Education: Princeton 1976 BS; Virginia 1977 MChE

Career: Vice President and General Manager, Refining and Process Industries, Gases and Equipment Group, Air Products and Chemicals, Inc. (2001-2004); General Manager, Benelux On-Sites, Air Products and Chemicals, Inc. (1997-2001)

Vice President and General Manager,  
Tonnage Gases, Europe and Middle East **Howard Castle-Smith** 44 (1932) 249 200

Start Date: 2008

Molesey Road, Walton-on-Thames, Surrey, England KT12 4RZ, United Kingdom

Date of Birth: 1959

Education: Cambridge (UK) 1980 MPhil

Career: Regional Vice President, Tonnage Gases, Asia, Gases and Equipment Group, Air Products and Chemicals, Inc.; General Manager, Tonnage Gases, Rotterdam, Gases and Equipment Group, Air Products and Chemicals, Inc.; Proposal Engineer, Air Products and Chemicals, Inc.

Vice President, Tonnage Gases, North America **Wilbur W. Mok** (610) 481-4911

Start Date: 2009

[mokw@airproducts.com](mailto:mokw@airproducts.com)

Date of Birth: 1961

Education: Northwestern 1984 BSEE; Chicago 1986 MBA

Career: President, Asian Region, Air Products Asia, Inc. (2006-2009); President, China, Air Products Asia, Inc. (2005-2006); Financial Analyst, Air Products and Chemicals, Inc.

Vice President and General Manager, Merchant Gases, Latin America **Michael A. Olivares** (610) 481-4911

Start Date: 2012

Date of Birth: 1955

Education: Drexel 1978 BSME; Temple 1991 MBA

Career: Vice President, International, Air Products and Chemicals, Inc. (2009-2012); Vice President, Latin America and South Africa, Air Products and Chemicals, Inc. (2006-2009); General Manager, Bangkok Industrial Gas Co., Ltd. (1996-1999); General Manager, Air Products Puerto Rico, Air Products and Chemicals, Inc. (1983-1987)

Vice President and General Manager,  
Tonnage Gases, Asia **Philip C. Sproger** 852 2527-1922

Start Date: 2012

Fax: 852 2527-1827

Fax: 65 6334-1005

East Wing, Floor 1, Building #88, Lane 887, Zu Chongzhi Rd. Zhangjiang Hi-Tech Park, Shanghai 201203, China

Date of Birth: 1959

Education: Penn State 1981

Career: Vice President, Tonnage Development, Asia, Gases and Equipment Group, Air Products and Chemicals, Inc. (2008-2012); Vice President and General Manager, U.S. Healthcare, Air Products and Chemicals, Inc. (2006-2008); Director, Investor Relations, Air Products and Chemicals, Inc. (2004-2006)

Vice President, Merchant Gases, North

America **Nelson Squires** (610) 481-7461  
Start Date: 2010  
[squirenj@airproducts.com](mailto:squirenj@airproducts.com)  
Date of Birth: 1961  
Education: Wake Forest 1983 BA  
Career: Director, Investor Relations, Air Products and Chemicals, Inc. (2006-2010); General Sales Manager, North America Gases, Air Products and Chemicals, Inc. (2003-2006); Eastern Region Manager, Electronics, Air Products and Chemicals, Inc. (1997-2001)

Vice President, Energy Businesses

**David J. Taylor** (610) 481-6250  
Start Date: 2005  
[taylorjd@airproducts.com](mailto:taylorjd@airproducts.com)  
Education: Carnegie Mellon 1978 BS, 1980 MS  
Career: Vice President, Large ASU Businesses, Chemicals Group, Air Products and Chemicals, Inc. (2003-2005); Vice President and General Manager, Industrial Chemicals Division, Chemicals Group, Air Products and Chemicals, Inc. (2002-2003)

Corporate Director, Mergers and Acquisitions

**Graham M. Bones** (610) 481-4911  
Start Date: 2014  
Career: General Manager, Packaged Gases, North America, Gases and Equipment Group, Air Products and Chemicals, Inc.; Canada Chairman, Compressed Gas Association, Inc.

## Air Products PLC

Hersham Place Technology Park, Molesey Road, Walton-on-Thames, Surrey, England KT12 4RZ, United Kingdom  
Tel: 44 (1932) 249 200  
Fax: 44 (1932) 249 565  
<http://www.airproducts.co.uk>

**Federal/National Regulator:** United Kingdom of Great Britain and Northern Ireland Gas and Electricity Markets Authority; United Kingdom of Great Britain and Northern Ireland Department for Environment, Food and Rural Affairs; United Kingdom of Great Britain and Northern Ireland Department of Energy and Climate Change

Vice President, Global Engineering Organization, Europe

**David R. Edmondson** 44 (1932) 249 200  
Start Date: 2007  
Fax: 44 (1932) 249 565  
Education: Liverpool (UK) 1981 BEng; Kingston (UK) 1992 MBA

## Air Products Asia, Inc.

2503-5, 25/F, 148 Electric Road, North Point, Hong Kong  
2 International Business Park, #03-32 The Strategy, 609930, Singapore

Tel: 852 2527-1922  
Tel: 65 6494-2240  
Fax: 852 2527-1827  
Fax: 65 6334-1005

**Federal/National Government Oversight:** People's Republic of China Ministry of Science and Technology

**Federal/National Regulator:** People's Republic of China Ministry of Environmental Protection; People's Republic of China Ministry of Industry and Information Technology; People's Republic of China Ministry of Land and Resources; People's Republic of China Ministry of Water Resources; People's Republic of China National Development and Reform Commission

Vice President and General Manager, Merchant

Gases **Choon Seong Saw** 852 2527 1922  
Start Date: 2012  
[sawcs@airproducts.com](mailto:sawcs@airproducts.com)  
Fax: 852 2527-1827  
Fax: 65 6334-1005  
Date of Birth: 1966  
Education: Monash U (Australia) 1989; Bath (UK) 1995 MBA

Vice President and General Manager, Tonnage

Gases **Philip C. Sproger** 852 2527-1922  
Fax: 852 2527-1827  
Fax: 65 6334-1005  
Date of Birth: 1959  
Education: Penn State 1981  
Career: Vice President, Tonnage Development, Asia, Gases and Equipment Group, Air Products and Chemicals, Inc. (2008-2012); Vice President and General Manager, U.S. Healthcare, Air Products and Chemicals, Inc. (2006-2008); Director, Investor Relations, Air Products and Chemicals, Inc. (2004-2006)

## Air Products Japan, Inc.

21-F Muza Kawasaki Central Tower, 1310, Omiya-Cho, Saiwai-Ku, 21st floor, Kawasaki, Kanagawa 212-8554, Japan

Tel: 81 (44) 542-1520  
Fax: 81 (44) 542-1521  
<http://www.airproducts.co.jp>

**Federal/National Regulator:** Japan Ministry of Economy, Trade and Industry; Japan Ministry of the Environment

President **Eugene C. Crossland** 81 (44) 542-1520  
Fax: 81 (44) 542-1521  
[crosslec@airproducts.com](mailto:crosslec@airproducts.com)

## DA NanoMaterials L.L.C.

2507 West Erie Drive, Tempe, AZ 85282  
Tel: (602) 282-1000  
Tel: (602) 412-2413  
Fax: (602) 659-4342

**Business Description:** DA NanoMaterials develops, manufactures, markets and sells polishing slurries for electronic precision polishing and chemical mechanical planarization processes used in the semiconductor industry.

Chief Executive Officer

**Nick Robertson** (602) 282-1000 ext. 1980

Fax: (602) 659-4342

Career: Chief Operating Officer, DA NanoMaterials L.L.C.; Vice President, Sales and Customer Support, DuPont Air Products NanoMaterials L.L.C. (2005-2010)

Vice President, Marketing and

Technology **Saifi Usmani** (602) 282-1000 ext. 1931

[usmanis@airproducts.com](mailto:usmanis@airproducts.com)

Fax: (602) 659-4342

Vice President, Manufacturing Technology (602) 282-1000

**Michael C. "Mike" Springman** ext. 1960

Fax: (602) 659-4342

Career: Management Executive, Projects, DA NanoMaterials L.L.C.; Vice President, Manufacturing, DuPont Air Products NanoMaterials L.L.C.; Vice President, Sales and Application Support, DuPont Air Products NanoMaterials L.L.C.

## Board of Directors

**Susan K. "Sue" Carter, CPA**

Director

Start Date: 2011

(704) 655-4000

Education: Indiana BS; Northern Illinois MBA



**William L. Davis, III** Presiding Director

(419) 422-2121

Fax: (419) 425-7040

Date of Birth: July 30, 1943

Education: Princeton 1965 BA

**Chadwick C. "Chad" Deaton**

Director

Start Date: 2010

(610) 481-4911

Fax: (610) 481-5900

Education: Wyoming 1976 BS

**W. Douglas Ford**

Director

Start Date: 2003

(610) 481-4911

Fax: (610) 481-5900

Education: Notre Dame; Northwestern PhD

**Seifollah "Seifi" Ghasemi**

Director

Start Date: 2013

(609) 514-0300

[sghasemi@rocksp.com](mailto:sghasemi@rocksp.com)

Fax: (609) 514-8720

Education: Stanford 1967 MSME

**Evert Henkes**

Director

Start Date: 2006

(610) 481-4911

Fax: (610) 481-5900

Education: Cornell 1965 BS

**David H.Y. Ho**

Director

Start Date: 2013

1 (514) 521-7474

Education: Waterloo 1983 BAsC, 1989 MASc



**John E. McGlade**

Director [Inside]

Start Date: 2007

(610) 481-6597

[mcgladje@airproducts.com](mailto:mcgladje@airproducts.com)

Fax: (610) 481-5900

Date of Birth: 1954

Education: Lehigh 1976 BS, 1980 MBA

Current Memberships: Member, Society of Chemical Industry

**Margaret G. "Margie" McGlynn**

Director

Start Date: 2005

(212) 847-1111

Affiliation: President and Chief Executive Officer, International AIDS Vaccine Initiative [IAVI]

110 William Street, Floor 27, New York, NY 10038-3901

Education: SUNY (Buffalo) 1982 BS, 1983 MBA

**Edward L. "Ed" Monser**

Director

Start Date: 2013

(314) 553-2000

[ed.monser@emerson.com](mailto:ed.monser@emerson.com)

Fax: (314) 553-3527

Education: Eastern Michigan 1972; Illinois Tech 1980

**Matthew H. Paull**

Director

Start Date: 2013

Education: Illinois BA



**Lawrence S. Smith**

Director

Start Date: 2004

(610) 481-4911

Fax: (610) 481-5900

Education: Ithaca 1969