

THE FIRM

SWS Engineering Inc. of Mississauga provides quality structural engineering services throughout Canada. The firm was established in 1992 by Samson Wong, P.Eng.

THE PRINCIPAL

Samson Wong, B.E.Sc., M.E.Sc., P.Eng
Past Membership -CP.Eng(Australia), P.E.(Singapore), MIE.Australia

Samson has been licensed to practice in many provinces in Canada and other countries. He has been in structural engineering fields since graduating from the University of Western Ontario in 1980. He has extensive engineering experience, both local and abroad, and has completed variety of structures such as high-rise condominiums, commercial complexes, schools, churches, industrial buildings and recreation facilities. He also has good experience in ISO 9001 quality assurance and value engineering.

Prior to setting up his own practice, he held office as the Manager of the Ontario office for a Canadian structural engineering consulting firm, as an Intermediate Structural Engineer with Metro Toronto Housing Authority and as Head of Design Research and Head of Design Standardisation for Singapore Housing and Development Board. Samson was licensed to practice in Canada, Australia and Singapore.

OUR PROFESSIONAL TEAMS

Andrew Ross, B.E.Sc., M.E.Sc., P.Eng., Senior Engineer

Mr. Ross completed his Bachelor's and Master's of Engineering Science degrees at the University of Western Ontario, specialising in structural engineering. He received Honour's recognition in his final four years. He wrote his Master's thesis on the application of tuned liquid dampers in high-rise buildings. Upon completion of his Master's in 2009, Andrew worked for Intelligent Engineering in Ottawa prior to rejoining SWS Engineering at the start of 2011.

Throughout his career, Andrew has gained valuable design and field experience and has worked on many projects across Canada, including high-rise condominiums, custom homes, hotels, commercial complexes, and institutional jobs, both in the private and public sectors.

Ariel Mertiri, B.Eng., P.Eng., Intermediate Engineer

Mr. Mertiri his Bachelor's and Bachelor Degree in Civil Engineering from Lakehead University in 2013. He has gained valuable experience in construction management, contract administration and structural design from his previous employment in the public sector. Since joining SWS Engineering Ariel gained valuable design and field experience and has worked on many projects, including mid-rise wood structure, commercial complexes, custom homes and insurance related repairs.

Tim Lau, B.Eng., Structural Engineer (EIT)

Mr. Lau obtained his Bachelor Degree in Building Engineering from Concordia University. He is fully bilingual and has been handling our design projects in Quebec. Since joining SWS Engineering Tim gained valuable design and field experience and has worked on many projects, including industrial buildings, fire halls, custom homes and insurance related repairs. .

THE WORK AREAS

All aspects of structural engineering for commercial, institutional, residential and industrial projects; for additions/alterations; and for condition survey and repairs. Experience in most structural systems, including:

- Engineered Wood and Timber
- Plain and Reinforced Masonry
- Structural Steel
- Reinforced, Precast and Prestressed Concrete.

THE COMMITMENTS

Our utmost objective is to deliver a safe, sound and most cost-effective design. We strive to sustain a high level of performance in all our work areas. Our staff is trained in ISO 9001 and Value Engineering.

PROJECTS by SWS ENGINEERING INC.

INSTITUTIONAL PROJECTS:

- Georgian College, Owen Sound, Marine Education Center and Fire Training Facility, (2015) McKnight Charron Ltd Architects
- Uxbridge Fire Hall, (2015) McKnight Charron Laurin Inc. Architect
- Innisfil Hydro Operation Center (2015) McKnight Charron Laurin Inc. Architect
- Innisfil Hydro Facilities (2013) McKnight Charron Laurin Inc. Architect
- Collingwood Fire Hall (2012) McKnight Charron Laurin Inc. Architect
- Wasaga Beach Fire Hall (2011) McKnight Charron Laurin Inc. Architect
- St Bernards Catholic Elementary School, Orillia (2011) McKnight Charron Laurin Inc. Architect
- Georgian College, Collingwood Campus, New 21,000 sf building for Organization Studies, (2010) McKnight Charron Laurin Inc. Architect
- OPP Detachment Station, Orillia, (2010) McKnight Charron Laurin Inc. Architect
- St. Paul's Catholic Elementary School, Alliston (2010) McKnight Charron Laurin Inc. Architect
- Addition of New Gymnasium and Second Floor, East Scarborough Boys and Girls Club, (2009) Markham High Tech Inc. Architect
- Addition and Renovation, YMCA, Orillia, (2009) McKnight Charron Laurin Inc. Architect
- Innisfil Police Station, Second Floor Addition and Extension (2009) McKnight Charron Laurin Inc. Architect
- Fire Hall, Penetanguishene (2009) McKnight Charron Laurin Inc. Architect
- Technology Building, Georgian College, Barrie (2009) McKnight Charron Laurin Inc. Architect
- Addition and Alterations at Tillsonburg Memorial Hospital (2008) Cohos Evamy Integrated
- Marine Facilities, Georgian College, Owen Sound (2008) McKnight Charron Laurin Inc. Architect
- North Perth Heath Centre, North Perth (2008) Cohos Evamy Integrated Design
- Addition to Municipal Office, Penetangushine, (2008) McKnight Charron Laurin Inc. Architect
- Bayview North East Public School, Aurora (2007) Michael W. McKnight Architect Inc.
- Administration Office and Police Station, Bradford (2005) Michael W. McKnight Architect Inc.
- Paramedic Services and Administration Centre, Midhurst (2006) Michael W. McKnight Architect Inc.
- St. Theresa High School, Midland (2004) Michael W. McKnight Architect Inc.
- Veterinary Technology Building, Georgian College, Orillia (2004) Michael W. McKnight Architect Inc.
- Driver Maintenance and Training Building, CFB Meaford, (2003) Michael W. McKnight Architect Inc.
- Georgian College, Gymnasium and Fitness Center, Barrie, (2003) Strasman Architect Inc. and Michael W. McKnight Architect Inc.
- Driver Maintenance and Training Building, CFB Meaford, (2003) Michael W. McKnight Architect Inc.
- Addition and Renovation at Korea Church, Mississauga, (2001) Top City Design
- Ardagh Elementary Catholic School (40,000 SF), Barrie, (2000) Michael McKnight Architect Inc.
- Addition at Heydon Park Secondary School, Toronto, (2000) ATA Architect Inc.
- Addition at St. Vincent's Primary School, Oakville, (2000) ATA Architect Inc.
- Addition at Lancaster School, Mississauga, (2000) ATA Architect Inc.
- Whitefield Christian School (40,000 SF), Scarborough (1999) Ian S Malcolm Architect Inc.
- Canadian Martyrs Catholic School (40,000 SF), Penetanguishene (1998) Michael McKnight Arch Inc.
- Bradford West Gwillimbury Elementary school, Bradford, 45,000 SF, (1997) Ian S Malcolm Architect Inc.
- Our Lady of Grace Elementary School, Angus, 16,000 sf addition. (1997) Michael McKnight Architect Inc.
- Beaver Creek Correctional Centre, Gravenhurst, Addition. (1997) Barrie Vickers Architect

- Fire Hall, Penetanguishene (1996) Michael McKnight Architect Inc.
- Treatment Plant Facilities, CFB Borden (1999) Michael McKnight Architect Inc.

COMMERCIAL PROJECTS:

- Cineplex Cinema, North Barrie Crossing(2015) Poilon Architect Inc.
- Retorfitting Cineplex at Don Mills, Queensway, Yonge and Dunda. Scotia Imax. Empress Walk (2014)
- Galaxy Theater, Guelph (2012) Fabiani Architect
- Cineplex Cinema, Winnipeg (2012) Fabiani Architect
- Cineplex VP, Brossard, Quebec (2012) Gerald Labelle Architect
- Cineplex Cinema, Markham (2011) Gerald Labelle Architect
- Galaxy Theatre 7- Plex, Chatham (2011) Fabiani Architect Ltd.
- Cineplex, Kitchener (2010) Fabiani Architect Inc.
- Silver City, Addition, Vernon, BC (2009) Core Architects Inc.
- Silver City, London (2009), Fabiani Architect Inc.
- Silver City, Hamilton (2008) Core Architects Inc.
- Silver City Brantford (2008) Fabiani Architect Inc.
- 4 Storey Sunlife Office Building, Burlington, (2008) Ware Malcomb
- 80,000 Commercial/Shopping, Portage Place, Peterborough (2006), Archicon Canada Inc. Architects
- 120,000 Mixed Use, Lot 2, 9 and 10, Barrie, (2006) Michael McKnight Architects
- Galaxy Theatre 8- Plex Milton (2006) Fabiani Architect Ltd.
- Cineplex Odeon 10 Plex, Oshawa (2006), Core Architect\ s Inc.
- 80,000 sf, Mixed Use for Fernbrook, Barrie,(2005), Ian S Malcolm Architect Inc.
- Cineplex Odeon 16-Plex, Borossard, Quebec (2005), Gerald Labelle Architect.
- Cineplex Odeon 16-Plex, Aurora (2005), Core Architects Inc.
- Galaxy Theatre 7-Plex, Barrhaven, Ottawa (2005), Gerald Labelle Architect.
- Cineplex Odeon 10-Plex Pitt Meadows British Columbia (2004), Core Architects Inc.
- Galaxy Theatre 7- Plex Orillia (2004) Fabiani Architect Ltd.
- Galaxy Theatre 10-Plex Guelph (2003) Fabiani Architect Ltd.
- Retail Centre, Guelph, (2003) Counsel Real Estate Inc.
- Galaxy Theatre 7-Plex, St. Thmoas (2003), Core Architects Inc.
- Galaxy Theatre 7-Plex, Victoriaville, Quebec (2003), Gerald Labelle Architect.
- Galaxy Theatre 10-Plex, Prince Albert (2003), Galaxy Group
- Galaxy Theatre 7-Plex, North Bay (2002), Galaxy Group
- Galaxy Theatre 8-Plex, Regina (2002), Galaxy
- Galaxy Theatre 8-Plex, Owen Sound (2001), Galaxy Group
- Galaxy Theatre 8-Plex, Cornwall (2001), Galaxy Group
- Galaxy Theatre 7-Plex, Moose Jaw (2001), Galaxy Group
- Galaxy Theatre 10-Plex, Waterloo(2000), Galaxy Group
- Galaxy Theatre 8-Plex Orangeville(2000), Galaxy Group
- Galaxy Theatre 8-Plex Midlands(2000), Galaxy Group
- Famous Player's 12-plex, Sudbury (1999), Trinity Development Group
- Famous Player's 12-plex, London (1999), Cadillac Fairview Corp.
- Famous Player's 16-plex, Brampton (1999), Trinity Development Group
- The Brick Store, Windsor (1999), Trinity Development Group
- The Party City Store, Windsor (1999), Trinity Development Group
- Famous Player's 12-plex, Thunder Bay (1998), Fabiani Architect Inc.
- Cineplex 12-plex Cinema, Brampton (1998), Joseph Bogdan Associates Inc.
- Famous Player's 10-plex, Belleville (1998), Fabiani Architect Inc.
- Famous Player's 12-plex, Kitchener (1998), Fabiani Architect Inc.
- Windsor Power Centre, Famous Player's 12-plex (1997), Fabiani Architect Inc.

- Burlington Power Centre, Famous Player's 10-plex and most of the 300,000 sf Superstores and restaurants, including Office Place Stores. (1996), Fabiani Architect Inc.
- Mississauga Power Center, Famous Player's 10-plex. (1997) Fabiani Architect Inc.
- Barrie Power Centre, 50,000 SF stores. (1996 and 97) Ian S Malcolm Architect Inc.
- 50,000 SF Commercial Building, Mississauga (1997) AW Trusevych Architect
- 22,000 SF Health Clinic, Township of Oro (1997) Michael McKnight Architect Inc.
- 14,000 SF Funeral Home, Barrie (1996) Ian S Malcolm Architect Inc.
- Royal Banks, Vaughan, Barrie, Mississauga
- TD Banks, Mississauga, Burlington

HOTEL PROJECTS:

- Hilton Garden Inn, Sudbury (2015) Architecture & Planning Initiatives
- Holiday Inn Express and Conference Hall, 6 storey plus underground, Oshawa, (2015) Architecture & Planning Initiatives
- Hampton Inn, 6 Storey, Bolton (2012) Architecture & Planning Initiatives
- Holiday Inn Express, 6 Storey, Pembroke, (2012) Architecture & Planning Initiatives
- Marriott Courtyard Hotel, 6 Storey, (2011) Halifax, Chamberlain Architect Services Ltd.
- Hampton Inn & Suite, 6 Storey, (2011) St John, Chamberlain Architect Services Ltd.
- Holiday Inn Express, 5 storey (2011) Orleans, Chamberlain Architect Services Ltd.
- Marriott, 6 Storey (2011) Ottawa, Woodman Architect Ltd.
- Domain Hotel, 10 Storey, Waterloo (2010) Chamberlain Architect Services Ltd.
- Marriott Courtyard Hotel and Residence Inn, Two Six Storey Hotels with Convention centre, Calgary Airport (2009), Chamberlain Architect Services Ltd.
- Aloft Element Hotels, 16 storey, Toronto (2009) Page and Steele Architect
- Homewood and Hampton Hotel, Two Six Storey Hotels with Convention Center, Toronto (2009), Chamberlain Architect Services Ltd.
- Hilton Garden Inn, Toronto Airport (2008) Chamberlain Architect Services Ltd.
- Hampton Inn, 92 Units, 6 Storey, London (2006) Chamberlain Architect Services Ltd.
- Holiday Inn Staybridge Hotel, 5 Storey, London (2006) Chamberlain Architect Services Ltd.
- Holiday Inn – 100 Units, 5 Storey, Newmarket (2006) Karp Namisniak Yamamoto
- Hilton Garden Inn and Conventional Facilities, 134 Unit 6 Storey, Ajax (2006) Chamberlain Architect Services Ltd.
- Hilton Homewood Suite, 6 Storey London, (2005) Karp Namisniak Yamamoto
- Marriott Fairfield, 3 storey, Sudbury, (2005) Karp Namisniak Yamamoto
- Marriott Courtyard and Conventional Facilities, 145 Unit, 3 Storey, Hamilton (2005) Chamberlain Architect Services Ltd.
- Hampton Inn & Suites 9 storey, Mississauga (2005) Chamberlain Architect Services Ltd.
- Homewood Suites, 115 Unit, 6 Storey, Oakville (2005) Chamberlain Architect Services Ltd.
- Hilton Homewood Suites, 115 Unit, 6 Storey, Burlington (2005) Chamberlain Architect Services Ltd.
- Hampton Inn, 6 Storey, Kitchener (2005) Chamberlain Architect Services Ltd.
- Best Western, 60 Unit, 3 Storey, Huntsville (2005) Karp Namisniak Yamamoto
- Motel 6, 120 Unit, 6 Storey, Niagara Fall (2005) Michael Allen Architect
- Hampton Inn & Suites, 200 Unit, 9 storey plus basement, Mississauga (2004) Chamberlain Architect Services Ltd.
- Marriott Fairfield, 180 Unit, 11 Storey, Mississauga (2004) Chamberlain Architect Services Ltd.
- Marriott Courtyard, 145 Unit, 6 Storey, Brampton (2004) Chamberlain Architect Services Ltd
- Marriott Fairfield, 104 Unit, 4 Storey, Brampton (2004) Chamberlain Architect Services Ltd
- Hilton Garden Inns, 120 Unit, 6 Storey, Burlington (2004) Chamberlain Architect Services Ltd
- Hilton Garden Inns, 120 Unit, 6 Storey, Niagara on the Lake (2004) Chamberlain Architect Services Ltd
- Holiday Inn, 120 Unit, 6 Storey, Halifax, Nova Scotia (2004) Karp Namisniak Yamamoto
- Staybridge Hotel, Mississauga, 84 Unit, 4 Storey (2004) Karp Namisniak Yamamoto Architects Inc.

- Marriott Fairfield Inn & Suites, Brampton. 120 Room, 5 Storey (2003) Chamberlain Architect Services Ltd
- Marriott Residence Inn, 80 Unit, 4 Storey, Whitby (2003) Chamberlain Architect Services Ltd
- Holiday Inn, 120 Unit, 6 Storey, London (2003) Karp Namisniak Yamamoto
- Holiday Express, 92 Unit, 5 Storey, Milton (2003) Karp Namisniak Yamamoto
- Hilton Garden Inn, 123 Unit, 5 Storey, Cambridge (2003) Chamberlain Architect Services Ltd
- Days Inn, 3 Storey, Oakville (2002), Ian S Malcolm Architect Group
- Comfort Inn, 3 Storey, Mississauga (2001), Ian S Malcolm Architect.
- Days Inn, 3 Storey, Scarborough (2001), Ian S Malcolm Architect

RESIDENTIAL AND CONDO PROJECTS:

- 4 to 8 Storey Senior Residential, Barrie, Brampton and Stoney Creek, 2014, 2015, Succession Development Corp
- Memory Care 5 Storey Senior Residence, Oakville, Fabiani Architect Inc., 2013
- Tradition of Huronia, 4 storey Senior Residence, Midland, Fabiani Architect Inc., 2013
- Five tower blocks, 22 to 25 Storey Student Housing Apartments, Waterloo, JD Development Group, 2011
- Two 14 storey Condo by the Lake with Marina, Barrie, Ian Malcolm Architect, 2011
- 6 Storey Condo with Underground Parking, Brantwell, Burlington, Fabiani Architect, 2011.
- Three Storey Town House, Sudbury, McKnight Charron Laurin Inc. Architect, 2011.
- Two Blocks Three Storey Town House, Sudbury, McKnight Charron Laurin Inc. Architect, 2010.
- Three Blocks Three Storey Town House, Barrie, McKnight Charron Laurin Inc. Architect, 2010.
- Seven Storey Condo, Deauville Place, Toronto, McKnight Charron Laurin Inc. Architect, 2010.
- 4 Storey Senior Residence, Tradition of Durham, Succession Development Corp, Phase 1 and II, 2009 and 2011.
- Senior Residences, Sault St Marrie, Morrisburg, Vaughan, Kingston, Windsor, Huntsville, Collingwood, Barrie, Oshawa (2005-2009), Adaptable Living Inc., Stone McQuire Vogt SMV Architects, Fabiani Architect Inc., Michael McKnight Arch Inc., Page and Steele Architect
- 6 Storey Condo with Underground Parking, Brantwell, Burlington, Fabiani Architect, 2007.
- 140 Unit Waterview Condominium, 14 storey plus 2 ½ level parking, Barrie, (2004), Post Oak Group
- 27 Unit, 3 Storey Condo, Belleville (2004) Karp Namisniak Yamamoto
- 100 Unit, 4 Storey Alert Care Senior Residence, Vaughan, (2004), Fabiani Architect Ltd.
- 100 Unit, 4 Storey Alert Care Senior Residence, Kingston, (2003), Fabiani Architect Ltd.
- 100 Unit, 4 Storey Alert Care Senior Residence, Thunderbay, (2003), Fabiani Architect Ltd.
- 32 Unit, 4 Storey Condo, Trenton (2003) Karp Namisniak Yamamoto
- 80 Unit Eight Storey Apartments, Stoney Creek (2002), Fabiani Architect Ltd.
- 70 Unit Apartment, Orillia (2002), Ian S Malcolm Architect
- 160 Unit Condo, Terraces at Heritage Square, Barrie (2002), Joseph Bogdan Associates Inc.
- 140 Unit Luxury Condominium, 14 storey plus 2 storey underground parking, Barrie, (2001), Ian S Malcolm Architect
- 150 Unit 9 storey Hotel and Convention Centre, Barrie (1999) South Shore Developments
- 91 Unit Senior Home, Kanata. (1998) Michael McKnight Architect Inc.
- 24 Unit apartment, (1997) Toronto Gabor & Popper Architects
- Morrison Student Residence, Essa Township (1995) Ian S Malcolm Architect

INDUSTRIAL PROJECTS:

- 55,000 SF plant for Diecan, Oakville (1999) A.W. Trusevych Architect
- 55,000 SF plant for Agonquin Automotive, Huntsville (1998)
- 40,000 SF plant for Acro Plastics, Markham (1997)

- 30,000 SF plant for Magnifoam, Barrie, (1996) Ian S Malcolm Architect
- 20,000 SF plant for Agonquin Industrial, Huntsville (1997) Michael McKnight Architect Inc.

INTERNATIONAL PROJECTS:

- Medical Clinic, Nanjing, China (1998) A.W. Trusevych Architect
- Daycare Centre, Nanjing, China (1998) A.W. Trusevych Architect
- Apartment in Shanghai, China (1998) A.W. Trusevych Architect
- 250,000 SF plant for Royal Europa, Polkowice, Poland (1997) Royal Plastics Group
- 170,000 SF Manufacturing Plant for Royal Housing System, La Plata, Argentina (1997) Royal Plastics Group
- 200,000 SF Manufacturing Plant for Royal Housing System, Shanghai, China (1997) Royal Plastics Group
- 100,000 SF Manufacturing Plant for Royal Housing System, Mexico (1996) Royal Plastics Group

FAST FOOD OUTLET

- A&W Restaurants, Brantford, Orangeville, Belleville, Sarnia, Cambridge, Windsor, Mississauga, Midland, Guelph, Peterborough and all over Ontario
 - Quizno Sub, Guelph, Barrie, Brampton
 - Dairy Queen Restaurants, Bowmanville, Sarnia, Oshawa
 - Tim Horton Restaurant, Burlington, Kitchener, Sutton
 - Wendys Restaurant, Burlington Power Center
 - Pizza Pizza, Kitchener
 - Coffee Time Restaurant, Hwy 7 and Airport Rd, Brampton
 - Lick's Restaurant, Hwy 7 and Airport Rd, Brampton
 - Big Star Restaurant, Burlington Power Center
 - Coffee Time Restaurant, Milton
 - Mr. SUB, Etobicoke
 - William's Coffee, Burlington; Etobicoke
- Numerous stores such as New York Fries, Pizza Huts, Taco Bells Stores
- within Famous Players' Theatres, Cineplex Cinemas and Galaxy Cinemas

RESTORATION AND TROFITTING WORKS

- Restoring 110 year Trinity St Paul's United Church and Tefelmusik, 427 Bloor West, ERA Architect, 2014
- Restoring 120 year Heritage Allandale Train Station, Barrie, ERA Archtitect, MCL Archtitect
- Retrofitting 80 year Shelbourne Library, Shelbourne, Chamberlain Architect
- Retrofitting 100 year Alliston Museum, Alliston, MCL Archtitect
- Retrofitting 80 year Colisuem Complex, Exhibition Place, Toronto, ERA Architect, 2011
- Addition at Barrie Armory, MCL Architect, 2011
- Retrofitting Heritage House, Heather Road, Toronto
- Restoration and Repair for accidental damage for Statefarm, AXA, Dominion of Canda and other insurance companies
- Assessment, Repair and Restoration to Niagara Wax Museum
- Retrofitting and Alterations to University of Toronto
- Assessment and Repair to fire/blast/accident damaged buildings including Niagara Wax Museum and Steelcase Canada Plant
- Post Office Plants at Barrie, Peterborough, Toronto and Markham
- CIBC Banks at Keswick, Port Perry, Bridge North, Midland, Uxbridge

CUSTOM HOMES/SUB-DIVISION

- Homes and Cottage, Gren Weis Architect
- Homes and Cottage, Gus Ricci Architect
- Custom homes for Lindal Cedar Homes
- Homes for Senator Homes
- Homes for Arista Homes
- Homes and Cottages, Stark Ireland Architect
- Home and Cottages, ATA Architect
- Arista Homes, Caliber Homes, Branthaven Homes, Carrington Homes, Pristine Homes, Rosehaven Homes, Caliper Homes,

CHURCHES

- Churches of Jesus Christ Latter-Day Saints, various locations, Toronto FM Group

- Toronto Presbyterian Church, Markham, (1995) Ian S Malcolm Architects.