

# Curriculum Vitae

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## Date and Place of Birth:

November 24, 1961 in Mexico City, Mexico

## Education:

1982–1986 Ph.D. Mathematics, Princeton University  
1979–1982 B.Sc. Mathematics, National University of Mexico

## Awards:

2017 Corresponding Member, Mexican Academy of Sciences  
2015 Jeffery–Williams Research Prize, Canadian Mathematical Society  
2015 Ten Most Influential Hispanic–Canadians  
2012 Fellow of the American Mathematical Society  
2004 Canada Research Chair in Algebraic Topology  
2003 Vilas Associate Award, University of Wisconsin–Madison  
1995 H. I. Romnes Faculty Fellowship, Wisconsin Alumni Research Foundation  
1992 U.S. National Science Foundation Young Investigator Award (NYI)  
1985 Alfred P. Sloan Doctoral Dissertation Fellowship

## Employment:

2015– CEO and Scientific Director, Mitacs, Inc.  
2005– Professor and Canada Research Chair, Mathematics Department, UBC  
2008–2015 Director, Pacific Institute for the Mathematical Sciences  
2005–2008 Deputy Director, Pacific Institute for the Mathematical Sciences  
1999–2002 Chair, Department of Mathematics, University of Wisconsin–Madison  
1996–2006 Professor, Department of Mathematics, University of Wisconsin–Madison  
1992–1996 Associate Professor, Department of Mathematics, University of Wisconsin–Madison  
1989–1992 Assistant Professor, Department of Mathematics, University of Wisconsin–Madison  
1989–1990 Member, School of Mathematics, Institute for Advanced Study, Princeton NJ  
1986–1989 Szegő Assistant Professor, Department of Mathematics, Stanford University

## Visiting Positions:

- May 2014, MSRI, Berkeley, USA
- May 2010, Centro di Ricerca Matematica, Pisa, Italy
- February 2010, Max-Planck-Institut für Mathematik, Bonn, Germany
- February 2007, Gehring Visiting Professor, University of Michigan, USA
- Fall 2004, Visiting Professor, Princeton University, USA
- Fall 2004, Member, Institute for Advanced Study, Princeton, NJ, USA
- July–August 2004, Max-Planck-Institut für Mathematik, Bonn, Germany

- June 2001, Visiting Scholar, Hong Kong University of Science and Technology
- June 2000, Visiting Professor, University of Paris 13 (Villetaneuse), France
- April-July 1998, Centre de Recerca Matematica, Barcelona, Spain
- March-April 1998, Visiting Professor, University of Paris 7 (Jussieu), France
- August 1997-March 1998, Max-Planck Institut für Mathematik, Bonn, Germany
- Sept. 1993-July 1994, ETH-Zürich, Zürich, Switzerland
- June-August 1993, Matematisk Institut, Arhus University, Denmark
- May-July 1990, MSRI, Berkeley, USA
- June 1989, Max-Planck Institut für Mathematik, Bonn, Germany

**Current Board Membership:**

- Board of Directors & Research Committee, Mitacs, Inc. 2015–present
- Council of the American Mathematical Society, 2010–present; Executive Committee Member since 2016.
- Board of Directors, Banff International Research Station (BIRS), 2009–present.

**Other Professional Service:**

1. Chair, American Mathematical Society Committee on Committees, 2017–present
2. Executive Committee, France–Canada Research Fund, 2016–present
3. Steering Committee for the 2017 Mathematical Congress of the Americas (Montreal).
4. Cyclical Review Committee, McGill University Department of Mathematics and Statistics (2016).
5. Scientific Committee for the 2016 Latin American Congress of Mathematics (Barranquilla, Colombia)
6. Board of Directors & Scientific Review Panel, Pacific Institute for the Mathematical Sciences, 2005–2015.
7. Board of Directors, Canadian Statistical Sciences Institute (CANSSI) 2012–2015.
8. Board of Directors, Atlantic Association for Research in the Mathematical Sciences (AARMS), 2008–2015.
9. Steering Committee for the 2013 Mathematical Congress of the Americas (Guanajuato).
10. Scientific Committee for the 2013 Pacific Rim Mathematical Association Congress (Shanghai).
11. Committee of Visitors, Division of Mathematical Sciences, US National Science Foundation, February 2013.

12. Selection committee, *The Ferran Sunyer i Balaguer Prize*, Catalunya, Spain, 2009–2014.
13. Chair, Committee on Committees, American Mathematical Society, 2011–2013.
14. Steering Committee for NSERC Longrange Plan for the Mathematical and Statistical Sciences, 2010–2012.
15. Committee on Science Policy, American Mathematical Society, 2010–2013.
16. Dean’s Search Committee for Head of the Department of Mathematics, UBC (2011).
17. Research Advisory Panel, Simons Foundation (2011).
18. American Mathematical Society Task Force on Prizes 2009–2010
19. ICIAM 2010 Congress Steering Committee, 2009–2011
20. External advisory board for NSF VIGRE grant at the Department of Mathematics, Louisiana State University, 2008–2011.
21. Committee on the Profession, American Mathematical Society, 2008–2010 (Chair for 2009–2010).
22. Executive Committee of the Banff International Research Station (BIRS), 2008–2009.
23. Dean’s Search Committee for Head of the Department of Mathematics, UBC (2007).
24. UBC Canada Research Chair Internal Review Committee, 2007–2010.
25. External review committee for Department of Mathematics, University of Western Ontario, Canada (2006).
26. Scientific Advisory Board, Banff International Research Station, 2005–2008
27. Co-chair, Scientific Advisory Committee for the Mathematical Sciences Research Institute (MSRI), Berkeley CA, (member since 2002). Ex-officio member of the MSRI Board of Trustees and Steering Committee, 2003–2007.
28. Elected member, Divisional Committee of Physical Sciences, UW–Madison, 2003–2005.
29. Chair, cluster hiring committee in mathematical physics/string theory, UW-Madison, 2001–2003.
30. External review committee for Department of Chemistry, UW-Madison (2001).
31. External advisory board for NSF VIGRE grant at the Department of Mathematics, Indiana University (2001–2003).
32. AMS Selection Committee on Summer Research Conferences (1997–2000).

**Editorial Service:**

1. Editorial Advisory Board Member, *Springer Graduate Texts in Mathematics*, 2012–present.
2. Editor, *Transactions of the American Mathematical Society*, 2004–present. Managing Editor since 2013.
3. Editor, *Memoirs of the American Mathematical Society*, 2004–present. Managing Editor since 2013.
4. Editor, *Turkish Journal of Mathematics*, 2009–present.
5. Editor, *AMS Contemporary Mathematics Volume 407*, “Recent Developments in Algebraic Topology” (2006).
6. Editor, *AMS Contemporary Mathematics Volume 310*, “Orbifolds in Mathematics and Physics” (2002).
7. Editor, *AMS Contemporary Mathematics Volume 279*, “Topology, Geometry and Algebra: Interactions and New Directions” (2001).
8. Editor, *AMS Proceedings of Symposia in Pure Mathematics Volume 63*, Seattle 1996 Summer Research Institute, “Group Representations: Cohomology, Group Actions and Topology” (1998).
9. Editor, *AMS Contemporary Mathematics Volume 188* “Homotopy Theory and its Applications” (1995).

**Conferences Organized:**

1. *Group Actions Workshop*, Fields Institute (June 2016), member of the organizing committee.
2. *Cohomology of Finite Groups: Interactions and Applications*, held at Oberwolfach, Germany (May 2015), member of the organizing committee.
3. *Latinos in the Mathematical Sciences*, IPAM (April 2015), member of the organizing committee.
4. *West Coast Algebraic Topology Summer School*, held at Stanford University (July 2012), and at UBC (July 2014) member of the organizing committee (funded by NSF and PIMS).
5. *Abel Prize Conference for John Milnor* IMA, Minneapolis (January 2012), member of organizing committee.
6. *Workshop on Mathematical Challenges for Sustainability*, held at DIMACS, Rutgers University (November 2010), member of organizing committee (funded by NSF).
7. *West Coast Algebraic Topology Summer School*, held at U.Oregon (August 2010), member of the organizing committee (funded by NSF).
8. *Cohomology of Finite Groups: Interactions and Applications*, held at Oberwolfach, Germany (July 2010), member of the organizing committee.

9. Scientific Committee, 3rd Latin American Congress of Mathematics, Santiago, Chile, September 2009.
10. CMS scientific committee and main local organizer, second joint meeting Canadian and Mexican Mathematical Societies, Vancouver, Canada, August 2009.
11. Chair, planning committee, First Pacific Rim Mathematical Association Congress, Sydney, Australia, July 2009.
12. Chair, CMS scientific committee, first joint meeting Canadian and Mexican Mathematical Societies, Guanajuato, Mexico, September 2006.
13. *ICM 2006 Satellite Meeting on Groups in Geometry and Topology*, Málaga, Spain, September 2006.
14. *String Topology* Panamerican Advanced Studies Institute (NSF funded) held at Morelia, Mexico, January 2006.
15. *Homotopy Theory and Group Actions* held at Banff International Research Station, November 2005.
16. *Cohomology of Finite Groups: Interactions and Applications* held at Oberwolfach, Germany (September 2005), member of the organizing committee.
17. *AMS Special Session "Group Cohomology and Related Topics"* (joint with J. Pakianathan), April 2004 (Lawrenceville, NJ).
18. *AMS Central Section Meeting*, Madison, WI, October 2002, main local organizer.
19. *ICM Satellite Conference on Stringy Orbifolds*, Chengdu, China, August 2002, member of the organizing committee.
20. *AMS-IMS-SIAM Joint Summer Research Conference: Groups, Representations and Cohomology*, Mt.Holyoke, June 2002, co-chair of the organizing committee.
21. *Workshop on Mathematical Aspects of Orbifold String Theory*, held at University of Wisconsin–Madison, May 2001, member of the organizing committee.
22. *Cohomology of Finite Groups: Interactions and Applications* held at Oberwolfach, Germany (July 2000), member of the organizing committee.
23. *Topology, Geometry and Algebra: Interactions and New Directions* held at Stanford University (August 1999), member of the organizing committee.
24. *American Mathematical Society Summer Institute on Cohomology of Groups* (July 1996), member of the organizing committee.
25. *AMS Special Session "Cohomology and Representations of Finite Groups"* (joint with J. Carlson), January 1995 (San Francisco).
26. *Joint AMS–IMS–SIAM Summer Research Conference "Cohomology, Representations and Actions of Finite Groups,"* (June 1992), co-organizer.

### Special Invited Addresses:

1. Corresponding Member Inaugural Lecture, Mexican Academy of Sciences, Mexico City, April 2017.
2. Distinguished Lecture, Beijing International Center for Mathematical Research, Peking University, Beijing, China, May 2016
3. Plenary Address (Jeffery–Williams Prize Lecture), meeting of the Canadian Mathematical Society, Montreal, December 2015.
4. Plenary address, joint meeting of the American and Mexican Mathematical Societies, Berkeley, June 2010.
5. Plenary address, meeting of the *Korean Mathematical Society*, October 2008.
6. Plenary address, meeting of the *Colombian Mathematical Society*, August 2005.
7. Latin American Congress of Mathematicians, June 2004.
8. “*Keys to Success: What Students Should Learn in Mathematics*,” invited remarks at the US Secretary of Education’s Mathematics Summit, Washington DC, February 2003.
9. **Bourbaki Seminar**, November 2001.
10. Plenary address, meeting of the Mexican Mathematical Society, October 1999.
11. Plenary address, Central Section Meeting of the *American Mathematical Society*, November 1996.
12. Plenary address, meeting of the Mexican Mathematical Society, Oaxtepec, Mexico, November 1991.

### Invited Lecture Series:

1. Commutativity, Bundles and K-theory I & II, Mediterranean Institute for the Mathematical Sciences, Cité des Sciences de Tunis, Tunisia, May 2017.
2. Master Class, Homotopical Approaches to Group Actions, University of Copenhagen, August 2011 (3 lectures)
3. Introductory graduate lecture series on Topological Symmetries, National University of Mexico, August 2008 (5 lectures).
4. Summer School on Transformation Groups and Orbifolds, Centre for Mathematical Sciences, Hangzhou, China, July 2008 (5 lectures).
5. Workshop on Algebra and Geometry of Groups and Classifying Spaces, CRM–Barcelona, February 2008 (3 lectures)
6. Master class at the University of Copenhagen, Denmark, August 2007 (5 lectures).
7. Gehring Visiting Professor, University of Michigan, February 2007 (3 lectures).

8. MSRI Workshop on String(y) Topology, Cuernavaca, Mexico, October 2006 (3 lectures).
9. Summer School on Homotopy Theory, University of Calgary, August 2005 (3 lectures).
10. Inaugural José Adem Memorial Lectures, CINVESTAV, Mexico, May 2005 (3 lectures).
11. Summer school ‘Interactions Between Homotopy Theory and Algebra’, University of Chicago, August 2004 (3 lectures).
12. LMS Durham Symposium on Geometry and Cohomology in Group Theory, Durham (UK), July 2003 (3 lectures).
13. Hong Kong University of Science and Technology, June 2001 (5 lectures).
14. Conference ‘Representation Theory and Computational Algebra,’ held at the University of Georgia, May 2000 (3 lectures).
15. Euroconference on Homological Methods in Representation Theory, Ioannina, Greece, March 1999 (3 lectures).
16. Algebra Conference in Morelia, Mexico, January 1995 (3 lectures).
17. Invited Minicourse, Topology Conference at PUCI (Rio de Janeiro, Brazil), January 1992.
18. National University of Mexico, July 1989 (3 lectures).

**Invited Colloquia and Lectures:**

1. Mathematical Congress of the Americas, Special Session on Cohomology of Groups, Montreal, July 2017.
2. Mathematical Congress of the Americas, Special Session on Groups in Topology & Geometry, Montreal, July 2017.
3. Mathematical Congress of the Americas, Special Session on Stringy Geometry, Montreal, July 2017.
4. AMS Special Session on Representation Spaces and Toric Topology, New York City, May 2017.
5. Invited lecture, opening of CNRS UMI Laboratoire Solomon Lefschetz, Cuernavaca, Mexico, April 2017.
6. Geometry and Topology Seminar, North Carolina State University, April 2017.
7. Topology Seminar, Centro de Ciencias Matemáticas, UNAM, Morelia, Mexico, February 2017.
8. Colloquium lecture, Instituto de Matemáticas, UNAM, Mexico City, December 2016.
9. Plenary lecture, Barcelona Topology Workshop, December 2016
10. Triangle Topology Seminar, Duke-UNC-NCSU, North Carolina, USA, August 2016.
11. Tercera Reunión, Matemáticos Mexicanos en el Mundo, Guanajuato, Mexico, August 2016.

12. Plenary Lecture, Glances at Manifolds II, Jagiellonian University, Kraków, Poland, August 2016.
13. Plenary Lecture, PIMS Summer School and Workshop on Geometric and Topological Aspects of the Representation Theory of Finite Groups, Vancouver, August 2016.
14. Latin American Congress of Mathematicians: Special Session on Algebraic and Geometric Topology, Barranquilla, Colombia, July 2016.
15. Conference on Geometry, Topology & Representation Theory, Medellin, Colombia, July 2016.
16. Undergraduate Colloquium, Xi'an Jiaotong University, Xi'an, China, May 2016.
17. Colloquium Lecture, University of Sao Paulo, Brazil, March 2016.
18. Plenary Lecture, Meeting on Topological K-theory and Non-commutative Geometry, U. Yucatán, Mérida, Mexico, February 2016.
19. Topology Seminar, UBC (two talks), January 2016.
20. Colloquium Lecture, Tata Institute of Fundamental Research Centre for Applicable Mathematics, December 2015.
21. Plenary Lecture, Memorial Conference for Samuel Gitler, Colegio Nacional, Mexico City, September 2015
22. Colloquium Lecture, Western University, London, Ontario, Canada, September 2015.
23. Plenary Lecture, PIMS Conference on Combinatorial Constructions in Topology, U. Regina, August 2015.
24. Colloquium Lecture, University of Saskatchewan, Canada, May 2015
25. Plenary Lecture, Midwest Topology Seminar, U. Chicago, May 2015.
26. Geometry & Topology (in honour of M. Bendersky, S.Gitler), Princeton U., March 2015
27. Algebraic Topology, Geometric and Combinatorial Group Theory, Pisa, Italy, February 2015.
28. Group Action Forum, Sanya, China, December 2014.
29. Topology Seminar, University of Michigan, November 2014.
30. Colloquium Lecture, McMaster University, November 2014.
31. Topology Seminar, McMaster University, November 2014.
32. Colloquium Lecture, University of Wisconsin–Madison, October 2014.
33. Colloquium Lecture, Purdue University, October 2014.
34. Conference on Configuration Spaces, Cortona, Italy, September 2014
35. Topology Seminar, University of Paris XIII, June 2014.
36. Topology Seminar, National University of Mexico, February 2014.



37. CMS special session on Geometric Group Theory, Ottawa, December 2013.
38. Colloquium Lecture, Centre de Recherches Mathematiques, Montreal, November 2013.
39. S.Gitler 80th Conference, Mexico City, Mexico, September 2013.
40. Pacific Rim Conference, Topology Special Session, Sapporo, Japan, July 2013.
41. PRIMA Congress, Topology Special Session, Shanghai, China, June 2013.
42. Topology Seminar, University of Bonn, Germany, May 2013.
43. Plenary lecture, Cascade Topology Seminar, Portland, Oregon, May 2013.
44. PIMS Distinguished Lecture, U.Lethbridge, April 2013.
45. Undergraduate colloquium lecture, Hartnell College, April 2013.
46. Colloquium Lecture, Centro de Ciencias Matemáticas, UNAM, Morelia (Mexico), February 2013.
47. Midwest Topology Seminar, plenary lecture, University of Illinois at Urbana Champaign, February 2013.
48. Colloquium Lecture, Mathematical Sciences Institute, Australian National University, Canberra, February 2013.
49. CMS Special Session on Geometric Group Theory, Montreal, December 2012.
50. PIMS Distinguished Lecture, University of Regina, November 2012.
51. Colloquium, Indiana University, November 2012.
52. Geometry/Topology Seminar, University of Chicago, November 2012.
53. Colloquium, CIMAT, Guanajuato (Mexico), October 2012.
54. Topology Seminar, University of Bonn (Germany), October 2012.
55. Topology Seminar, University of Strasbourg (France), October 2012.
56. Colloquium, National University of Mexico, September 2012.
57. Conference on Cohomology and Support in Representation Theory and Related Topics, U.Washington (Seattle), July 2012.
58. Conference on Algebraic Topology, Applications and New Directions, Stanford University, July 2012.
59. Geometry and Topology Seminar, U.Munich (Germany), July 2012
60. Geometry Seminar, U.Augsburg (Germany), July 2012.
61. Conference on Topology and Groups, Berlin (Germany), June 2012.
62. Workshop: Geometry and Topology in Samos, (Greece), June 2012.

63. IMBM Mathday, Bogazici University, Istanbul (Turkey), June 2012.
64. Panorama of Topology - Browder Conference, Princeton University May 2012.
65. Special Session on Transformation Groups, AMS Meeting, Hawaii, March 2012.
66. CIRGET Geometry and Topology Seminar, Montreal, February 2012.
67. Special seminar, University of Calgary, January 2012.
68. Workshop on Interactions between Groups and Topology, Strasbourg, France, November 2011.
69. Oberwolfach Workshop on Homotopy Theory, September 2011.
70. Topology Seminar, CINVESTAV, Mexico City.
71. Workshop on Homotopical Approaches to Group Actions, U.Copenhagen, Denmark, August 2011.
72. Conference on Hyperplane Arrangements and Applications, PIMS, Vancouver, August 2011.
73. Conference on Geometry and Physics, Henan Normal University, China, July 2011.
74. Workshop on Recent Developments on Orbifolds, Chern Institute, Tianjin, China, July 2011.
75. Alberta Topology Seminar, PIMS-U.Calgary, June 2011.
76. Topology Seminar, University of Michigan, April 2011.
77. Colloquium lecture, Centro de Modelamiento Matemático, Santiago, Chile, March 2011.
78. Colloquium lecture, Universidad Técnica Federico Santa María, Valparaiso, Chile, March 2011.
79. Colloquium lecture, CRM-ISM Montreal, January 2011.
80. Colloquium lecture, McMaster University, October 2010.
81. Topology Seminar, McMaster University, October 2010.
82. Plenary speaker, Yangtze River International Mathematics Forum, Chengdu, China, August 2010.
83. Colloquium lecture, Shanghai Jiaotong University, Shanghai, China, August 2010.
84. Plenary speaker, Workshop on Hyperplane Arrangements, Pisa, Italy, May 2010
85. Colloquium lecture, Basque Center for Applied Mathematics, Bilbao, Spain, May 2010.
86. Plenary speaker, Inaugural Conference for S.Lefschetz Institute, Cuernavaca, Mexico, April 2010.
87. Colloquium Lecture, U. Leuven (Belgium), February 2010.
88. Colloquium Lecture, U. Western Ontario, February 2010.
89. Algebra Seminar, U. Western Ontario, February 2010.

90. Topology Seminar, Max-Planck Institute (Bonn), February 2010.
91. Algebraic Topology Seminar, Princeton University, November 2009.
92. Cascade Topology Seminar, Eugene, Oregon, October 2009.
93. Topology Seminar, Stanford University, October 2009.
94. Joint meeting of the Canadian and Mexican Mathematical Societies, invited lecture, Topology special session, August 2009.
95. Plenary lecture, Isle of Skye Conference on Algebraic Topology, Group Theory and Representation Theory, June 2009.
96. Canada–Korea Special Session on Algebraic Geometry and Topology, CMS Meeting at St. John’s, June 2009.
97. Antalya Algebra Days, Antalya, Turkey, May 2009.
98. Geometry and Topology Conference, Oaxaca, Mexico, April 2009.
99. Colloquium Lecture, CINVESTAV, Mexico, April 2009.
100. Topology Seminar, University of Paris XIII, March 2009.
101. Colloquium Lecture, University of Washington, USA, November 2008.
102. Colloquium Lecture, Korean Institute for Advanced Study, October 2008.
103. Colloquium Lecture, University of Alberta, Canada, October 2008.
104. Colloquium Lecture, University of Wisconsin–Madison, USA, September 2008.
105. Peter Orlik Conference, Fields Institute, August 2008.
106. Colloquium Lecture, Academia Sinica, Beijing, China, July 2008.
107. Seminar Lecture, Peking University, Beijing, China, July 2008.
108. Conference on Non–commutative Algebra, Sherbrooke, Canada, June 2008.
109. Colloquium lecture, Hokkaido University, Sapporo, Japan, March 2008.
110. Colloquium lecture, U. Western Ontario, Canada, March 2008.
111. France–Mexico Mathematics Meeting, Cuernavaca, Mexico, December 2007.
112. NRW Topology Seminar, Bonn, Germany, November 2007.
113. Plenary lecture, conference in honor of S.Lopez de Medrano, Mexico City, October 2007.
114. Oberwolfach Workshop on Homotopy Theory, September 2007
115. Topology Seminar, University of Wisconsin-Madison, September 2007.
116. Invited lecture, meeting of the Colombian Math Society, June 2007.

117. Invited lecture, IMS Singapore, June 2007.
118. Plenary speaker, Cascade Topology Seminar, Vancouver, April 2007.
119. Colloquium lecture, University of Victoria, April 2007.
120. Topology Seminar, University of Michigan, February 2007.
121. Topology Seminar, Wayne State University, February 2007.
122. Colloquium lecture, University of Michigan, January 2007.
123. Morelia, Mexico, Conference on Geometry, Topology and Interactions, January 2007.
124. Nanjing University, Nanjing, China, June 2006.
125. Fudan University, Shanghai, China, June 2006.
126. Chern Institute, Tianjin, China, June 2006.
127. Beijing Normal University, Beijing, China, May 2006.
128. Tsinghua University, Beijing, China, May 2006.
129. Academia Sinica, Beijing, China, May 2006.
130. MSRI, Berkeley, April 2006.
131. Colloquium lecture, Purdue University, April 2006.
132. Plenary lecture, Alberta-British Columbia Algebra Conference, Vancouver, April 2006.
133. Plenary lecture, Pacific Northwest Geometry Seminar, Vancouver, April 2006.
134. Coast to Coast Seminar, Simon Fraser University, Vancouver, February 2006.
135. Winter Meeting, Canadian Mathematical Society, Victoria, December 2005.
136. Special Session SMM-CMS, Mexico City, October 2005.
137. Plenary lecture, Conference on Groups, Homotopy and Configuration Spaces, University of Tokyo, Japan, July 2005.
138. Colloquium Lecture, University of Washington, Seattle, May 2005.
139. Seminar Lecture, Instituto de Matemáticas, UNAM, Mexico City, May 2005.
140. Workshop on Topology and Representation Theory, Lausanne, Switzerland, April 2005.
141. Colloquium Lecture, University of Alberta, Edmonton, Canada, March 2005.
142. Topology Seminar, Princeton University, December 2004.
143. Lehigh–Lafayette Geometry Seminar, December 2004.
144. Colloquium Lecture, Montreal (CRM/ISM), November 2004.
145. Algebra Seminar, SUNY-Binghamton, November 2004.

146. Topology Seminar, U. Maryland, October 2004.
147. Topology Seminar, McMaster University, October 2004.
148. Topology Seminar, Johns Hopkins University, October 2004.
149. Topology Seminar, University of Münster (Germany), July 2004.
150. Colloquium Lecture, University of Wuppertal (Germany), July 2004.
151. Colloquium Lecture, University of Göttingen (Germany), July 2004.
152. Topology Seminar, Max Planck Institute (Bonn, Germany), July 2004.
153. Topology Seminar, National University of Mexico, June 2004.
154. Topology Seminar, Princeton University, April 2004.
155. BIRS Conference on Manifolds and Homotopy Theory (Banff, Canada), March 2004.
156. Topology Seminar, Aarhus University (Denmark), February 2004.
157. Topology Workshop, Morelia (Mexico), January 2004.
158. Colloquium Lecture, University of British Columbia (Vancouver, Canada), December 2003.
159. Algebra and Topology Seminar, University of British Columbia (Vancouver, Canada), December 2003.
160. Algebraic Topology Conference in honor of S.Gitler's 60th birthday, (San Miguel, Mexico) December 2003.
161. AMS special session on group cohomology in algebra and geometry, (Chapel Hill NC), October 2003.
162. AMS special session on manifold theory (Binghamton NY), October 2003.
163. Plenary speaker, Applied Homotopy Theory Conference at London, Ontario, October 2003.
164. Plenary speaker, Algebraic Topology Conference at Minneapolis, September 2003.
165. Plenary speaker, Conference on Transformation Groups (Poznan, Poland), August 2003.
166. Plenary speaker, Helsinki Conference on Transformation Groups, August 2003.
167. Plenary lecture, Lisbon Conference on Commutative Algebra, June 2003.
168. AMS-RSME Joint Meeting, Seville, Spain, June 2003.
169. Topology Seminar, Northwestern University, May 2003.
170. Topology Seminar, Princeton University, April 2003.
171. Colloquium, U. Western Michigan, April 2003.
172. Group Theory Seminar, University of Chicago, February 2003.

173. Topology Seminar, Stanford University, January 2003.
174. Topology Seminar, Indiana University Bloomington, October 2002.
175. Stringy Orbifolds Conference, Chengdu, China, August 2002.
176. Topology/Geometry Seminar, IMATE-UNAM, Mexico City, June 2002.
177. Colloquium, IMATE-UNAM, Morelia, June 2002.
178. Topology Seminar, IMATE-UNAM, Cuernavaca, June 2002.
179. Algebra Seminar, IMATE-UNAM, Morelia, June 2002.
180. Conference on Manifolds, Münster, Germany, June 2002.
181. Colloquium, U.Munich, May 2002.
182. Plenary Speaker, International Conference on Algebraic Topology, Evanston, March 2002.
183. AMS Special Session, Ann Arbor, March 2002.
184. University of Chicago Topology Seminar, January 2002.
185. K-theory Seminar, University of Paris VII, November 2001.
186. Topology Seminar, University of Paris XIII, November 2001.
187. Indiana University Topology Seminar, October 2001.
188. Ontario Topology Seminar, University of Western Ontario, October 2001.
189. Oberwolfach Topology Conference, September 2001.
190. Plenary speaker, Singapore International Symposium on Topology and Geometry, July 2001.
191. Int.Conf. on Symplectic Topology, Chengdu, China, June 2001.
192. Topology Seminar, Princeton University, April 2001.
193. Topology Seminar, Stanford University, February 2001.
194. AMS Special Session, New Orleans, January 2001.
195. Conference in honor of H.Cárdenas, Morelia, Mexico, November 2000.
196. Topology Seminar, National University of Mexico, November 2000.
197. Midwest Topology Seminar, Bloomington Indiana, October 2000.
198. Colloquium, University of Munich (Germany), July 2000.
199. Topology Seminar, University of Paris XIII, June 2000.
200. Colloquium, University Louis Pasteur (Amiens, France), June 2000.
201. Topology Seminar, University of Minnesota, May 2000.

202. Midwest Topology Seminar, Notre Dame, April 2000.
203. Topology Seminar, Princeton University, March 2000.
204. Topology Seminar, Stanford University, February 2000.
205. Colloquium, McMaster University (Canada), December 1999.
206. Midwest Group Cohomology Seminar, Evanston, November 1999.
207. Galois Theory Seminar, MSRI (Berkeley), November 1999.
208. Cascade Topology Seminar, Vancouver, October 1999.
209. Plenary Lecture Japan-Mexico Topology Meeting, Morelia Mexico, July 1999.
210. CRM Topology Seminar, Barcelona, July 1999.
211. joint AMS-SMM meeting, special session in algebraic topology, Denton TX, May 1999
212. University of Athens (Greece), March 1999.
213. Rutgers University Topology Seminar, March 1999.
214. Northwestern University Topology Seminar, February 1999.
215. Colloquium, University of Michigan, February 1999.
216. Topology Seminar, University of Michigan, February 1999.
217. Topology Seminar, Purdue University, January 1999.
218. Topology Seminar, Indiana University, January 1999.
219. Max Karoubi 60th Birthday Conference, U. Paris VII (France), November 1998
220. Topology Seminar, U. Paris XIII (France), November 1998.
221. Topology Seminar, U. Strasbourg (France), November 1998.
222. Topology Seminar, Texas A&M, November 1998.
223. Topology Conference, Oberwolfach, September 1998.
224. Colloquium, U. Western Ontario, August 1998.
225. Barcelona Conference on Algebraic Topology, June 1998.
226. Topology Seminar, Edinburgh University, May 1998.
227. Topology Seminar, Oxford University, May 1998.
228. Colloquium, University of Southampton, May 1998.
229. Colloquium, University of Lausanne (Switzerland), April 1998.
230. Topology Seminar, Paris-Nord, March 1998.

231. Algebraic K-theory Seminar, U. Paris (Jussieu), March 1998.
232. Topology Seminar, Binghamton U. (March 1998).
233. Colloquium, Binghamton U. (March 1998).
234. Topology Seminar, Princeton University (March 1998).
235. Oberwolfach Group Actions Meeting (February 1998).
236. Colloquium, Bielefeld U.(Germany), February 1998.
237. Colloquium, Bonn University (Germany), January 1998.
238. Workshop on Cohomology and Representations, MPIM-Bonn, January 1998.
239. Colloquium, Basel University (Switzerland), December 1997.
240. Colloquium, Münster University (Germany), November 1997.
241. Colloquium, Eichstätt University (Germany), November 1997.
242. Topology Seminar, Université Lille (France), November 1997.
243. Oberseminar, Max–Planck–Institut für Mathematik (Germany), October 1997.
244. Topology and Geometry Seminar, Arhus University (Denmark), August 1997.
245. Topology Seminar, National University of Mexico, June 1997.
246. Topology Seminar, Northwestern University, May 1997.
247. AMS Special Session, Detroit, May 1997.
248. Special Lecture for B. Eckmann’s 80th Birthday, ETH Zürich, April 1997.
249. Algebraic Topology Conference (Evanston), March 1997.
250. Topology Seminar, Courant Institute (NYU), March 1997.
251. Colloquium, Stanford University, February 1997.
252. MIT Topology Seminar, December 1996.
253. U. Chicago Topology Seminar, October 1996.
254. Colloquium, University of Western Ontario, September 1996.
255. Plenary Lecture, AMS Summer Institute, Seattle, July 1996.
256. Fields Institute, Conference on Homotopy Theory (Toronto), May 1996.
257. Fields Institute, Toronto, May 1996.
258. Seminar, ETH–Zürich, June 1996.
259. Northwestern University Topology Seminar, February 1996.



260. Colloquium, Northern Illinois University, February 1996.
261. Conference on Topological Methods in Group Theory, Oberwolfach Germany, December 1995.
262. Basel-Freiburg-Strasbourg Algebra Seminar, Basel Switzerland, November 1995.
263. Colloquium, University of Georgia, October 1995.
264. Algebra and Topology Seminar, ETH–Zürich, June 1995.
265. New Mexico Geometry and Topology Seminar, April 1995.
266. Yale University Topology Seminar, November 1994.
267. Princeton University Topology Seminar, November 1994.
268. University of Illinois at Chicago Colloquium Lecture, November 1994.
269. University of Chicago Group Theory Seminar, November 1994.
270. Northwestern University Topology Seminar, October 1994.
271. LMS Durham Symposium on Geometry and Cohomology in Group Theory, July 1994.
272. U. Konstanz Mathematics Colloquium, July 1994.
273. Heidelberg University Topology Seminar, June 1994.
274. U. Mainz Topology Seminar, June 1994.
275. Queen Mary College–U. London joint Geometry and Topology Seminar, May 1994.
276. Cambridge University Topology Seminar, May 1994.
277. Oxford University Topology Seminar, May 1994.
278. U. Edinburgh Topology Seminar, May 1994.
279. Browder Topology Conference, Princeton University, March 1994.
280. Basel University Mathematics Colloquium, February 1994.
281. Bonn University Mathematics Colloquium, February 1994.
282. Heidelberg University Topology Seminar, January 1994.
283. U. Geneva (Switzerland) Mathematics Seminar, December 1993.
284. Oxford University One Day Homotopy Theory Conference, December 1993.
285. U. Paris VII Algebraic K–theory Seminar, November 1993.
286. ETH–Zürich Algebra and Topology Seminar, November 1993.
287. U. Lausanne (Switzerland) Mathematics Seminar, September 1993.
288. Plenary Lecture, Latin American School of Mathematics (ELAM), Mexico City, August 1993.

289. Gitler Topology Conference, Cocoyoc, Mexico, August 1993.
290. Arhus University (Denmark) Topology Seminar, July 1993.
291. Stanford University Topology Seminar, May 1993.
292. Northwestern University Topology Seminar, April 1993.
293. Special Seminar, University of Michigan, March 1993.
294. Algebra Seminar, Instituto de Matematicas, UNAM (Morelia), Mexico, June 1992.
295. Plenary Lecture, Conference on Topology and Representation Theory, Evanston, May 1992.
296. Princeton University Topology Seminar, March 1992.
297. Conference on the Steenrod Algebra and its Applications, Oberwolfach, Germany, March 1992.
298. Colloquium, University of Basel, Switzerland, February 1992.
299. Colloquium, Kansas State University, October 1991.
300. Invited lecture, International Conference on Algebraic Topology, Oaxtepec, Mexico, July 1991.
301. Heidelberg University Topology Seminar, June 1991.
302. Algebra and Topology Seminar, ETH Zurich, June 1991.
303. University of Toronto Topology Seminar, March 1991.
304. ETH–U.Zurich Colloquium, February 1991.
305. University of Chicago Topology Seminar, January 1991.
306. Indiana University Colloquium, Bloomington, January 1991.
307. Indiana University Topology Seminar, Bloomington, January 1991.
308. Northwestern University Topology Seminar, November 1990.
309. Mid–West Topology Conference, Purdue University, October 1990.
310. MSRI Topology Seminar, July 1990.
311. Barcelona Conference in Algebraic Topology, June 1990.
312. Ohio State University Topology Seminar, May 1990.
313. Cornell Topology Festival, May 1990.
314. Colloquium, Johns Hopkins University, April 1990.
315. Colloquium, Lehigh University, March 1990.
316. Rutgers University Group Theory Seminar, February 1990.

317. Yale University Topology Seminar, November 1989.
318. Princeton University Homotopy Theory Seminar, October 1989.
319. Princeton University Topology Seminar, October 1989.
320. Conference on Topological Methods in Group Theory, Oberwolfach, October 1989.
321. 1st Northeastern Topology Conference, Albany, NY, September 1989.
322. International Conference on Algebraic Topology and Global Analysis, Guanajuato, Mexico, August 1989.
323. International Workshop on Algebraic Topology, Oaxtepec, Mexico, August 1989.
324. AMS Conference on Representations and Cohomology of Finite and Algebraic Groups, Arcata, July 1989.
325. Heidelberg University Topology Seminar, June 1989.
326. Poznan International Conference on Algebraic Topology, June 1989.
327. Colloquium, University of Wisconsin at Madison, April 1988.
328. International Conference in Homotopy Theory, Northwestern University, March 1988.
329. Conference on Representations and Cohomology of Finite and Algebraic Groups, University of Georgia, January 1988.
330. Princeton University Homotopy Theory Seminar, November 1987.
331. Berkeley-Stanford Topology Seminar, October 1987.
332. CBMS-NSF Conference Group Actions on Manifolds, July 1987.
333. Arcata Algebraic Topology Conference, July 1986.
334. Courant Institute, New York University, March 1986.
335. Princeton University Seminar in Homotopy Theory, November 1985.

**Research Papers:**

1. “ $Z/p$ -Actions on  $(S^n)^k$ ,” Transactions of the American Mathematical Society, 300 (1987), 791-809.
2. “The Free Rank of Symmetry of  $(S^n)^k$ ,” (joint with W. Browder) *Inventiones Mathematicae*, 92 (1988), 431-440.
3. “Cohomological Restrictions on Finite Group Actions,” *Journal of Pure and Applied Algebra*, 54 (1988), 117-139.
4. “Homology Representations of Finite Transformation Groups,” Proceedings of the 1986 Arcata Algebraic Topology Conference, Springer-Verlag Lecture Notes No. 1370 (1989), 15-23.

5. “Cohomological Exponents of  $ZG$ -Lattices,” *Journal of Pure and Applied Algebra*, 58 (1989), 1-5.
6. “Torsion in Equivariant Cohomology,” *Commentarii Mathematici Helvetici*, 64 (1989), 401-411.
7. “On the Exponent of Cohomology of Discrete Groups,” *Bulletin of the London Mathematical Society*, 21 (1989) 585-590.
8. “Generalized Tate Homology, Homotopy Fixed-Points and the Transfer,” (joint with R. Cohen and W. Dwyer), *Proceedings of the 1988 Evanston Algebraic Topology Conference, Contemporary Mathematics* 96 (1989), 1-13.
9. “Symmetric Invariants and Cohomology of Groups,” (joint with J. Maginnis and R. J. Milgram), *Mathematische Annalen* 287 (1990), 391-411.
10. “Discrete Groups with Large Exponents in Cohomology,” (joint with J. Carlson), *Journal of Pure and Applied Algebra* 66 (1990), 111-120.
11. “The Geometry and Cohomology of the Mathieu Group  $M_{12}$ ,” (joint with J. Maginnis and R. J. Milgram), *Journal of Algebra* 139 (1991), 90–133.
12. “Cohomological Non-Vanishing for Modules over  $p$ -Groups,” *Journal of Algebra* 141 (1991), 376–381.
13. “Euler Characteristics and Cohomology of  $p$ -Local Discrete Groups,” *Journal of Algebra* 149 (1992), 183–196.
14. “On the  $K$ -theory of the Classifying Space of a Discrete Group,” *Mathematische Annalen* 292 (1992), 319–327.
15. “ $A_5$ -Invariants and the Cohomology of  $L_3(4)$  and Related Extensions,” (joint with R. J. Milgram), *Proceedings of the London Mathematical Society* 66, Part 1 (1993), 187–224.
16. “On the Geometry and Cohomology of Finite Simple Groups,” *Proceedings of the 1990 Barcelona Topology Conference, Springer-Verlag Lecture Notes in Mathematics* 1509 (1992), 1–9.
17. “Representations and  $K$ -theory of Discrete Groups,” *Bulletin of the American Mathematical Society* Vol.28, No.1 (1993), 95–98.
18. “Characters and  $K$ -theory of Discrete Groups,” *Inventiones Mathematicae* 114 (1993), 489–514.
19. “Invariants and Cohomology of Groups,” (joint with R. J. Milgram), *Boletín Sociedad Matemática Mexicana (Adem Memorial Volume)*, Vol. 37 (1995), 1–22.
20. “The Cohomology of the Mathieu Group  $M_{22}$ ,” (joint with R. J. Milgram), *Topology*, Vol. 34 No. 2 (1995), 389–410.
21. “Discrete Groups, Grothendieck Rings and Families of Finite Subgroups,” *Contemporary Mathematics* Volume 188 (1995), 1–23.

22. “*Linear Maps over Abelian Group Algebras*,” (joint with R. G. Swan), *Journal of Pure and Applied Algebra* 104 (1995) Vol.1 1–7.
23. “*The Subgroup Structure and Mod 2 Cohomology of O’Nan’s Sporadic Simple Group*,” (joint with R. J. Milgram), *Journal of Algebra* 176 (1995), 288–315.
24. “*The Mod 2 Cohomology Rings of Rank 3 Simple Groups are Cohen Macaulay*,” (joint with R. J. Milgram), *Annals of Mathematics Studies* Vol.138 (1995) 3–13.
25. “*Automorphisms and Cohomology of Discrete Groups*,” *Journal of Algebra* 182 (1996), 721–737.
26. “*The Cohomology of the McLaughlin Group and Some Associated Subgroups*,” (joint with R. J. Milgram), *Mathematische Zeitschrift* Vol. 224 No. 4 (1997) 495–517.
27. “*Essential Cohomology of Finite Groups*,” (joint with D. Karagueuzian), *Commentarii Mathematici Helvetici* 72 (1997) 101–109.
28. “*Elementary Abelian Groups Acting on Products of Spheres*,” (joint with D. J. Benson), *Mathematische Zeitschrift* 228 (1998), 705–712.
29. “*On the Cohomology of  $SL_2(Z[1/p])$* ,” (joint with N. Naffah), *London Mathematical Society Lecture Note Series* 252, pp. 1–9 (1998), Cambridge University Press.
30. “*Buildings, Groups Extensions and Cohomology of Congruence Subgroups*,” *Contemporary Mathematics*, Volume 220, pp. 1–15 (1998).
31. “*Periodic Cyclic Cohomology of Group Rings*,” (joint with M. Karoubi), *Comptes Rendus de l’Academie des Sciences (Paris)*, t. 326, Série I, pp. 13–17, 1998.
32. “*The Cohomology of the Lyons Group and Double Covers of the Alternating Groups*,” (joint with D. Karagueuzian, R. J. Milgram and K. Umland), *Journal of Algebra* 208, pp. 452–479 (1998).
33. “*Topological Models and the Cohomology of Galois Groups*,” (joint with Karagueuzian and Minac), *Comptes Rendus de l’Academie des Sciences (Paris)*, t. 326, Série I, pp. 919–924 (1998).
34. “*On Some Examples of Group Actions and Group Extensions*,” (joint with E. Yalcin), *Journal of Group Theory* 2, pp. 69–79 (1999).
35. “*On the Cohomology of Galois Groups Determined by Witt Rings*,” (joint with Karagueuzian and Minac), *Advances in Mathematics* 148, pp. 105–160 (1999).
36. “*On Spaces with Periodic Cohomology*,” (joint with Jeff Smith), *Electronic Research Announcements of the AMS*, Vol. 6, pp. 1–6 (2000).
37. “*Field Theory and the Cohomology of Some Galois Groups*,” (joint with Gao, Karagueuzian and Minac), *Journal of Algebra* 235, pp. 608–635 (2001).
38. “*On the Cohomology of Central Frattini Extensions*,” (joint with J. Pakianathan), *Journal of Pure and Applied Algebra* 159, pp. 1–14 (2001)

39. “*The Cohomology of the Sylow 2–subgroup of the Higman–Sims Group*,” (joint with Carlson, Karagueuzian and Milgram), *Journal of Pure and Applied Algebra* 164, pp. 275–305 (2001)
40. “*Periodic Complexes and Group Actions*,” (joint with Jeff Smith), *Annals of Mathematics* 154, pp. 407–435 (2001).
41. “*Twisted Orbifold K–theory*,” (joint with Y.Ruan), *Communications in Mathematical Physics* 237, pp. 533–556 (2003).
42. “*On Representations and K–theory of the Braid Groups*,” (joint with D.Cohen and F.Cohen), *Mathematische Annalen* 326, pp. 515–542 (2003).
43. “*Constructing and Deconstructing Group Actions*,” *Contemporary Mathematics* 346, pp. 1–8 (2004).
44. “*Fixity and Free Group Actions on Products of Spheres*,” (joint with J.Davis and Ö.Ünlü), *Commentarii Mathematici Helvetici* 79, pp. 758–778 (2004).
45. “*Toroidal Orbifolds, Gerbes and Group Cohomology*,” (joint with J.Pan), *Transactions of the American Mathematical Society* 358, pp. 3969–3983 (2006).
46. “*Commuting Elements and Spaces of Homomorphisms*,” (joint with F.Cohen), *Mathematische Annalen* 338 (2007), no. 3, 587–626.
47. “*Lectures on Cohomology of Groups*,” *Contemporary Mathematics* 436, pp. 317–334 (2007).
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49. “*Compatible Actions and Cohomology of Crystallographic Groups*,” (joint with J.Ge, J.Pan and N.Petrosyan), *Journal of Algebra* 320, pp. 341–353 (2008).
50. “*On decomposing suspensions of simplicial spaces*,” (joint with A.Bahri, M.Bendersky, F.Cohen, and S.Gitler), *Boletín Sociedad Matemática Mexicana* (3) 15, pp. 91–102 (2009).
51. “*Stable splittings, spaces of representations and almost commuting elements in Lie groups*,” (joint with F.Cohen and J.Gómez), *Math. Proc. Camb. Phil. Soc.* Vol. 149, Issue 03, pp. 455–490 (2010).
52. “*Bundles, Cohomology and Truncated Symmetric Polynomials*,” (joint with Zinovy Reichstein), *Documenta Math.* 15, pp. 1029–1047 (2010).
53. “*Lectures on Orbifolds and Group Cohomology*,” (joint with M.Klaus), *Advanced Lectures in Mathematics* (Transformation Groups and Moduli Spaces of Curves), Vol. 16, pp. 1–19, International Press (2010).
54. “*Cohomology of Toroidal Orbifold Quotients*,” (joint with A.Duman and J.Gómez), *Journal of Algebra* 344 (2011) 114–136.
55. “*Commuting elements, simplicial spaces, and filtrations of classifying spaces*,” (joint with F.Cohen and E.Torres-Giese), *Math. Proc. Camb. Phil. Soc.*, Vol. 152, issue 01, pp. 91–114 (2012).

56. “Equivariant  $K$ -theory for Lie Group Actions with Maximal Rank Isotropy,” (joint with J.Gómez), *Journal of Topology*, Vol. 5, No. 2, 431-457 (2012).
57. “On generators of crystallographic groups and actions on flat orbifolds,” (joint with K.Dekimpe, N.Petrosyan and B.Putrycz), *Journal of Group Theory*, Vol. 15, Issue 4, pp. 553–561 (2012).
58. “Commuting elements in central products of special unitary groups,” (joint with Frederick R. Cohen and Jose Manuel Gomez), *Proc. Edinburgh Math. Soc. (Series 2)*, Vol. 56, Issue 1, pp 1–12 (2013).
59. “On the Structure of Spaces of Commuting Elements in Compact Lie Groups,” (joint with J.Gómez) in *Configuration Spaces: Geometry, Combinatorics and Topology*, Publ. Scuola Normale Superiore, Vol. 14 (CRM Series), 2013.
60. “A classifying space for commutativity in Lie groups,” (joint with José Manuel Gómez), *Algebraic & Geometric Topology* 15-1 (2015), 493–535.
61. “Representation spaces for central extensions and almost commuting unitary matrices,” (joint with Man Chuen Cheng), *Journal of the London Mathematical Society* 94 (2), pp 503-524 (2016).
62. “Topology of Fermi Surfaces and Anomaly Inflows,” (joint with O. Antolin, D. Sheinbaum, G. Semenoff), *J. High Energ. Phys.* (2016) 2016: 83. doi:10.1007/JHEP11(2016)083.
63. “Infinite loop spaces and nilpotent  $K$ -theory,” (joint with J. Gómez, J. Lind and U. Tillmann), *Algebraic & Geometric Topology* 17 (2017) 869–893.
64. “Free finite group actions on rational homology 3-spheres,” (joint with I. Hambleton), arXiv:1706.08109 [math.AT].

#### **Books:**

**Cohomology of Finite Groups**, Springer Verlag Grundlehren Volume 309 (first edition–1994, second edition–2004), joint with R. J. Milgram.

**Orbifolds and Stringy Topology**, Cambridge Tracts in Mathematics Volume 171, Cambridge University Press (2007), joint with J. Leida and Y. Ruan.

#### **Expository and Review Work:**

1. “El trabajo de José Adem en la topología algebraica,” based on a lecture delivered at José Adem’s memorial conference in Mexico City, June 1991, in the *Collected Works of José Adem*, published by El Colegio Nacional (Mexico) 1993.
2. “Las Relaciones de Adem,” *Boletín de la Sociedad Matemática Mexicana* Vol 36 (1991) pp. 1–5.
3. “Cohomology and Actions of Finite Groups,” lecture notes based on an invited mini-course given for Topology Conference at PUCI–Rio (Rio de Janeiro, Brazil, January 1992), *Contemporary Mathematics* Volume 161 (1994), pp. 123–141.
4. Book Review: *Cohomological Methods in Transformation Groups* (by C. Allday and V. Puppe), *Bulletin of the AMS*, Vol. 31, No.2 (1994), pp. 254–257.

5. Book Review: Cohomological Methods in Transformation Groups (by C. Allday and V. Puppe), *Bulletin of the London Math. Society*, Vol. 27 (1995), pp. 409–410.
6. “Recent Developments in the Cohomology of Finite Groups,” Notices of the American Mathematical Society, Vol. 44, No. 7 (1997), pp. 806–815.
7. “Topics in Transformation Groups,” survey paper in **Handbook of Geometric Topology**, Elsevier (2001), pp. 1–56 (joint with J. Davis).
8. “Finite Group Actions on Acyclic 2-Complexes”, Bourbaki Lecture No. 894, in **Astérisque**, Vol. 290 (2003), pp. 1–17.

#### **Graduate Students:**

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#### **PDFs Supervised at UW-Madison and UBC:**

D. Karagueuzian (1995–1999), J. Pakianathan (1998–2001), M. Banagl (1999–2002), R. Field (2000–2003), E. Lupercio (2000–2003), C. Westerland (2004–2008), Antonio Ramírez (2005–2007), José Manuel Gómez (2008–2011), Man Chuen Cheng (2012–2015), Benedict Williams (2013–2015), Henrik Rueping (2014–2016), Omar Antolin (2015–present), Marc Stephan (2016–present).