

## CURRICULUM VITAE

Douglass F. Taber  
Department of Chemistry and Biochemistry  
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Philadelphia, PA 19130  
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Date and Place of Birth: November 11, 1948: Berkeley, CA

Marital Status: Married, six children

### Education:

1970 B.S. Stanford University (Honors in Chemistry)

1974 Ph.D. Columbia University (Organic Chemistry)

### Research Interests:

1969-70 Undergraduate Research, L. J. Altman, Stanford University: Preparation of 9,10-cyclopentaphenanthrene; Preparation and reactions of 1,1-dihaloepoxides.

1970-74 Graduate Research, G. Stork, Columbia University: Intramolecular Michael reactions to produce cis-fused bicyclic systems; Applications to the synthesis of gibberellins.

1974-75 Postdoctoral Research, B. M. Trost, University of Wisconsin: Applications of sulfonium chemistry to natural products synthesis.

1975 - 2014 Research: Stereoselective synthesis of natural products; New methods in synthetic organic chemistry; Computational organometallic chemistry.

### Professional Experience:

1974-75 Research Associate, Department of Chemistry, University of Wisconsin

1975-77 Research Instructor, Department of Pharmacology, Vanderbilt University

1977-82 Assistant Professor, Department of Pharmacology, Vanderbilt University  
1978-82 Research Assistant Professor, Department of Chemistry, Vanderbilt University  
1982-84 Assistant Professor, Department of Chemistry, University of Delaware  
1984-93 Associate Professor, Department of Chemistry, University of Delaware  
1993-2014 Professor, Department of Chemistry, University of Delaware  
2014- Professor Emeritus, Department of Chemistry, University of Delaware

Professional Service:

1985 NCI SBIR Study Section, May 1985  
1986 Chairman, Local Organizing Committee, 29<sup>th</sup> National Organic Chemistry Symposium, Newark, DE 1985  
1984-87 Consultant, Helix Associates, Newark, DE (2 days/year)  
1982-1992 Consultant, Division of Clinical Pharmacology, Vanderbilt University (5 days/year)  
1985-88 Invited monthly column, "Organic Chemistry Review," Industrial Chemist  
1987-2009 Wallace Carothers Award Committee, Delaware Section, American Chemical Society  
1988-89 Visiting Research Scientist, Du Pont Central Research  
1991 NIH SBIR Study Section, July 1991  
1991 State Department/AID Review Panel, Oct 1991  
1992 Visiting Professor, Universidad Autonoma Nuevo Leon, Monterrey, Mexico June 7-13  
1992 Ad Hoc member, Medicinal Chemistry A Study Section, NIH Oct 14-16  
1993 Member, Medicinal Chemistry Special Study Section, NIH, Nov 30  
1992-93 Expert witness, Phoenix Petroleum, King of Prussia, PA  
1993-94 Expert witness, Rothwell, Figg, Ernst and Kurz, Washington, D.C.

1994 Consultant, Bausch & Lomb Pharmaceuticals, Tampa, Florida

1995-2002 Consultant, Dupont Company

1995-96 Visiting Research Scientist, Dupont Merck Pharmaceuticals

1996 Symposium Organizer, "Guided Inquiry in the Organic Lecture and Laboratory", 14<sup>th</sup> Biennial Conference on Chemical Education, Clemson University

1998 Member, Fellowship Review Panel, NIH, March 23-24

1998 Symposium Organizer, "Practical Applications of Computational Organometallic Chemistry", American Chemical Society National Meeting, Boston, August 26

2000 Reviewer, National Research Council

2000 Expert Witness, Kenyon & Kenyon, New York, NY

2001 Visiting Professor, South China Agricultural University, Guangzhou, Jan. 6-10

2001-03 Short Course, "Intermediate Organic", Dupont Agricultural Chemistry.

2003 Member, Fellowship Review Panel, NIH, July 8-9, Nov. 12

2003 Member, Ernest Guenther Award Canvassing Committee, ACS

2004 Member (ad hoc), BNP Study Section, NIH, March 8-9

2007 Expert Witness, Sterne, Kessler, Goldstein, Fox, Washington, DC

2007 ACS short course, "Recent Developments in Organic Synthesis", New Brunswick, NJ, June 2007

2007 ACS short course, "Recent Developments in Organic Synthesis", Boston, MA August 2007

2009 National Defense Science and Engineering Graduate Fellowship review panel, Arlington, VA

2009-2010 Expert Witness, Montgomery, McCracken, Walker & Rhoads, Philadelphia, PA

- 2010 Expert Witness, Winston & Strawn, Chicago, IL
- 2010 Expert Witness, Morrison & Foerster, San Diego, CA
- 2014 Visiting Professor, University of Science and Technology, Hefei, China
- 2014-2015 Expert Witness, Department of Justice, Washington, DC

Honors and Awards:

- 1967-70 Dean's List, Stanford University
- 1968 NSF Undergraduate Research Participant
- 1969 Elected to Phi Lambda Upsilon
- 1970-73 NSF Graduate Fellow
- 1974 Elected to Sigma Xi
- 1976-84 National Institutes of Health Research Grant, CA 34383
- 1978 Invited participant, National Science Foundation Workshop on Organic Synthesis and Natural Products Chemistry
- 1979-83 Petroleum Research Fund AC Research Grants
- 1980-81 Research Grant, Vanderbilt University Research Council
- 1983-86 National Institutes of Health Research Grant, GM 32027
- 1983-87 Fellow of the Alfred P. Sloan Foundation
- 1983 Research Grant, University of Delaware Research Foundation
- 1983-86 National Science Foundation Research Grant, CHE 8306692
- 1984 Invited participant, Symposium, "Latest Trends in Organic Synthesis," Blacksburg, VA
- 1985 National Science Foundation Travel Grant, IUPAC Symposium on Organometallics in Organic Synthesis, Kyoto, Japan
- 1985-87 Petroleum Research Fund A/C Research Grant

- 1988 National Science Foundation Travel Grant, IUPAC Symposium on Natural Products Chemistry, Kyoto, Japan
- 1989 Invited speaker, 5<sup>th</sup> International Symposium on Carbene Chemistry, Kyoto, Japan
- 1991 National Science Foundation Travel Grant, IUPAC Symposium on Organometallics in Organic Synthesis, Utrecht
- 1991-93 Research Grant, Allergan, Inc., Irvine, CA (\$50,828/year) one postdoctoral
- 1991-93 Petroleum Research Fund A/C Research Grant (\$20,000/year) one Ph.D. student
- 1991-93 Research Contract, DoD/Aberdeen, MD (\$25,000/first year, \$49,600 second year) one Ph.D. student
- 1991-92 Research Contract, NIH/NiAAA, Bethesda, MD (\$25,000/year) one Ph.D. student
- 1992-94 National Institutes of Health research grant, GM 46762, "Synthesis of Taxol" \$171,410/year, two postdoctorals, one graduate student
- 1993-2011 National Institutes of Health research grant, GM42056 "Structural Investigation of Prostaglandin Conjugates", \$114,461/year, one postdoctoral, one Ph.D. student (NIH MERIT Award).
- 1994 Invited speaker, ACS National Meeting, Denver
- 1993 National Science Foundation Travel Grant, Joint USA-Japan-China Symposium on Catalysis, Beijing
- 1993 Invited speaker, Scientific Conference on Chemical Defense Research, Aberdeen, MD
- 1994 Research Grant, Zeneca Pharmaceuticals, \$15,000
- 1995 Invited speaker, Symposium on Organometallics in Organic Synthesis, 78<sup>th</sup> Canadian Society for Chemistry Conference and Exhibition
- 1995-1996 National Science Foundation, GOALI program, \$60,000 Sabbatical support
- 1995-97 Petroleum Research Fund A/C Research Grant (\$25,000/year) one Ph.D. student

- 1996 Invited speaker, 11<sup>th</sup> International Conference on Organic Synthesis (ICOS-11), Amsterdam
- 1997 Invited speaker, South East Regional Meeting, American Chemical Society
- 1997 Invited speaker, IUPAC International Conference on Biodiversity and Bioresources, Phuket, Thailand
- 1998 Organizer, "Practical Applications of Computational Organometallic Chemistry", National American Chemical Society meeting, Boston
- 1998 Invited speaker, Symposium, "Latest Trends in Organic Synthesis," Gainesville, FL
- 1999 Invited speaker, Middle Atlantic Regional Meeting, American Chemical Society
- 1999 Invited speaker, Organometallics in Organic Synthesis (OMCOS 10), Versailles, France July 21
- 1999 Invited speaker, Gordon Research Conference on Natural Products, Henniker, NH
- 1999-2000 Petroleum Research Fund A/C Research Grant (\$30,000/year) one Ph.D. student
- 1999 Invited speaker, South East Regional Meeting, American Chemical Society
- 2000-2008 National Institutes of Health research grant, GM 60287, "Physiologically Active Natural Products" \$256,700 / year, one postdoctoral, three Ph.D. students
- 2000 Invited speaker, 11th International Conference on Organic Synthesis (ICOS-13), Warsaw
- 2001 Invited speaker, Organometallics in Organic Synthesis (OMCOS 11), Taipei, Taiwan
- 2003 Elected Fellow, American Association for the Advancement of Science
- 2004 Invited speaker, ACS National Meeting, Anaheim, March 2004
- 2004 Invited speaker, International Conference, Chemistry Biology Interface: Synergistic New Frontiers, Delhi, India, Nov. 22-77, 2004.

- 2005 Invited speaker, Symposium on the Chemistry and Biology of Biomolecules, Montpellier, France March 20-25, 2005.
- 2005 Invited speaker, Singapore International Chemical Conference 4 Dec. 8-10, 2005.
- 2006 Invited speaker, ACS National Meeting, Atlanta, March 2006
- 2006 Invited speaker, ACS Middle Atlantic Regional Meeting, Hershey, PA June 2006
- 2007 Invited speaker, Symposium, C-H Activation in Organic Synthesis, Loughborough, England April 2007
- 2008 Lead speaker, Symposium "Innovations in the Organic Chemistry Curriculum" 20<sup>th</sup> Biennial Conference on Chemical Education, Bloomington, IN July 2008
- 2009 Invited speaker, 2<sup>nd</sup> Pennsylvania Organic Chemistry Curriculum Development Conference, Immaculata University, Immaculata, PA May 27th
- 2009 Invited speaker, meeting on the Schweinfurthins and Related Natural Products, NIH/Frederick, December 11, 2009
- 2010 Invited speaker, 1st Annual Congress of Catalytic Asymmetric Synthesis, Beijing
- 2010 Invited speaker, ACS National Meeting, Boston
- 2011 Invited speaker, Fifth International Symposium "The Chemistry of Aliphatic Diazo Compounds: Advances and Outlook" St. Petersburg, Russia
- 2011 Invited speaker, Gordon Research Conference on Natural Products
- 2011 Allan R. Day Award, Philadelphia Organic Chemists Club
- 2014 Visiting Professor, University of Science and Technology, Hefei, China
- 2016 Plenary speaker, 23<sup>rd</sup> Conference on Isoprenoids, Minsk, Belarus

Publications:

1. Taber, D. F.: A simple synthesis of 2-alkyl cyclohexenones. *J. Org. Chem.* 41: 2649, 1976.
2. Trost, B. M.; Taber, D. F.; and Alper, J. B.: An approach to the stereocontrolled creation of an acyclic side chain of some natural products. *Tetrahedron Lett.*: 3857, 1976.
3. Taber, D. F.: Cyclopentanone ring formation with control of side chain stereochemistry: a simple stereoselective route to the prostaglandins. *J. Amer. Chem. Soc.* 99: 3513, 1977.
4. Harbison, R. D.; MacDonald, J.S.; Sweetman, B. J.; ;Taber, D. F. Proposed mechanism for diphenylhydantoin-induced teratogenesis. *Pharmacologist* 19: 179-179 (1977).
5. Taber, D. F., and Lee, C. H.: The preparation of dimethyl (7-<sup>2</sup>H<sub>3</sub>-2-oxoheptyl) phosphonate, a reagent for the synthesis of 20-<sup>2</sup>H<sub>3</sub> prostaglandins and thromboxanes. *J. Labelled Compounds and Radiopharmaceuticals* 14: 599, 1978.
6. Stork, G.; Taber, D. F.; and Marx, M.: Intramolecular Michael addition as a route to angularly substituted cis hydroindanes. *Tetrahedron Lett.*: 2445, 1978.
7. Wilson, J. T.; Howell, R. L.; Holladay, M. W.; Brillis, G. M.; Chrastil, H.; Watson, J. T.; and Taber, D. F.: Gentisuric acid (GU): metabolic formation and identification as a metabolite of aspirin in man. *Clin. Pharmacol. Ther.* 23: 634-643, 1978.
8. Taber, D. F., and Korsmeyer, R.: A simple stereoselective synthesis of (±)-oplopanone. *J. Org. Chem.* 43: 4925-4927, 1978.
9. Jernigan, J.; Taber, D.; Harbison, R. D. General method for the in vitro production and identification of N-dealkylated metabolites. *Tox. App. Pharm.* 48: A164-A164, 1979.
10. Taber, D. F., and Gunn, B. P.: Branching strategy in organic synthesis. A versatile ketone to enone homologation. *J. Org. Chem.* 44: 450, 1979.
11. Taber, D. F.; Jernigan, J. D.; Watson, J. T.; Carr, K.; and Woosley R. L.: N-Desethylacecainide is a metabolite of procainamide in man: convenient method for the preparation of an N-dealkylated drug metabolite. *Drug Metabol. Disp.* 7: 346, 1979.
12. Taber, D. F. and Gunn, B. P.: Control elements in the intramolecular Diels-Alder Reaction: synthesis of (±)-torreyol. *J. Amer. Chem. Soc.* 101: 3992, 1979.



13. Stork, G.; Boeckmann, R. K., Jr.; Taber, D. F.; Still, W. C. and Singh, J.: Reductive cyclization of ethynyl ketones in the construction of a significant tricyclic intermediate for the synthesis of gibberellic acid. *J. Am. Chem. Soc.* 101: 7107, 1979.
14. Oates, J. A.; Roberts, L. J., II; Sweetman, B. M.; Maas, R. L.; Gerken, J. F.; and Taber, D.F.: Metabolism of the prostaglandins and thromboxanes, in: *Advances in Prostaglandin and Thromboxane Research*, Vol. 6 (B. Samuelsson, P. E. Ramwell and R. Paoletti, Eds.) Raven Press, NY, 1980, p. 35.
15. Verbeeck, R. K.; James, R. C.; Taber, D. F.; Sweetman, B. J.; and Wilkinson, G. R.: The determination of meperidine, normeperidine and deuterated analogs in blood and plasma by gas chromatography mass spectrometry selected ion monitoring. *Biomedical Mass Spectrometry* 7: 58, 1980.
16. Taber, D. F., and Anthony, J. M.: Stereoselective synthesis of ( $\pm$ )-laurene. *Tetrahedron Lett.*: 2779, 1980.
17. Taber, D. F., and Saleh, S. A.: Intramolecular Diels-Alder route to angularly substituted perhydrophenanthrenes: synthesis of ( $\pm$ ) fichtelite. *J. Am. Chem. Soc.* 102: 5085, 1980.
18. Taber, D. F.; Saleh, S. A.; and Korsmeyer, R. W.: Preparation of cyclohexanones and cyclopentanones of high optical purity. *J. Org. Chem.* 45: 4699, 1980.
19. Maas, R.L.; Roberts, L.J.; Taber, D.F.; Oates, J.A. Urinary dinor thromboxane B<sub>2</sub> levels in normal males and cardiovascular disease. *Clinical Res.* 28: A319-A319, 1980.
20. Taber, D. F.; Phillips, M. A.; and Hubbard, W. C.: Preparation of deuterated arachidonic acid. *Prostaglandins*, 22: 349, 1981.
21. Taber, D. F.; Campbell, C.; Gunn, B. P.; Chiu, I.-C.: The intramolecular Diels-Alder reaction: stereocontrol through non-synchronous bond formation? *Tetrahedron Lett.* 22: 5141, 1981.
22. Taber, D. F., and Saleh, S. A.: Branching strategy in organic synthesis. II: Reversal of olefin polarization with concomitant carbon-carbon bond formation. *J. Org. Chem.* 46:4817, 1981.
23. Hubbard, W. C.; Phillips, M. A.; and Taber, D. F.: Selective synthesis of octadeuterated ( $\pm$ )-5-HETE for use in GC-MS quantitation of 5-HETE. *Prostaglandins* 23: 61, 1982.
24. Taber, D. F.; Phillips, M. A.; and Hubbard, W. C.: Preparation of deuterated

- arachidonic acid. *Methods in Enzymology*, Eds. W. E. Lands and W. L. Smith, New York, NY, Academic Press, 1982. V. 86, p. 366.
25. Maas, R. L.; Taber, D. F.; and Roberts, L. J., II. Quantitative assay of urinary 2,3-dinor thromboxane B<sub>2</sub> by GC-MS. *Methods in Enzymology*, Eds. W. E. Lands and W. L. Smith, New York, NY, Academic Press, 1982. V. 86, p. 592.
  26. Taber, D. F.: TLC mesh column chromatography. *J. Org. Chem.* 47: 1351, 1982.
  27. Taber, D. F., and Saleh, S. A.: Control elements in the intramolecular Diels-Alder reactions: synthesis of  $\alpha$ -eudesmol. *Tetrahedron Lett.* 23: 2361, 1982.
  28. Maas, R.L.; Ingram, C. D.; Taber, D. F.; Oates, J. A.; and Brash, A. R.: Stereospecific removal of the D(R) hydrogen atom at the 10-carbon of arachidonic acid in the biosynthesis of leukotriene A<sub>4</sub> by human leukocytes. *J. Biol. Chem.* 257: 13515, 1982.
  29. Taber, D. F., and Petty, E. H.: A general route to highly functionalized cyclopentane derivatives by intramolecular C-H insertion. *J. Org. Chem.* 47: 4808, 1982.
  30. Taber, D. F.; Gunn, B. P.; and Chiu, I.-C.: Preparation of 2-heptyl cyclohexenone. *Org. Syn.* 61: 59, 1983. Coll. Vol. VII, p. 249 (1990).
  31. Hubbard, W. C., and Taber, D. F.: Analysis of hydroxy acids, *Proceedings of the Ninth International School of Pharmacology: Prostaglandins and Leukotrienes*, Plenum, 1983.
  32. Taber, D. F., and Raman, K.: Enantioselective carbocyclization: a facile route to chiral cyclopentanes. *J. Am. Chem. Soc.*, 105: 5935, 1983.
  33. Taber, D. F.; Krewson, K. R.; Raman, K.; and Rheingold, A. L.: On the stereochemical course of cuprate-mediated addition to an activated cyclopropane. *Tetrahedron Lett.* 25: 5283, 1984.
  34. Taber, D. F.; Petty, E. H.; and Raman, K.: Enantioselective ring construction: synthesis of (+)- $\alpha$ -cuparenone. *J. Am. Chem. Soc.*, 107: 196, 1985.
  35. Maas, R. L.; Ingram, C. D.; Porter, A. T.; Oates, J. A.; Taber, D. F.; and Brash, A. R.: Investigation of the chemical conversion of hydroperoxyeicosatetraenoate to leukotriene epoxide using stereospecifically labelled arachidonic acid. *J. Biol. Chem.* 260: 4217, 1985.
  36. Taber, D. F.; Dunn, B. S.; Mack, J. F.; and Saleh, S. A.: Ortho allylation of benzyl alcohols. *J. Org. Chem.* 50: 1987, 1985.

37. Taber, D. F., and Ruckle, R. E., Jr.: Diastereoselection in rhodium-mediated intramolecular C-H insertion: preparation of a trans-3,4-dialkylcyclopentane. *Tetrahedron Lett.* 26: 3059,1985.
38. Taber, D. F., and Schuchardt, J. S.: Intramolecular C-H insertion: synthesis of ( $\pm$ )-pentalenolactone E methyl ester. *J. Am. Chem. Soc.* 107: 5289, 1985.
39. Taber, D. F.; Amedio, J. C., Jr.; and Patel, Y. K.: Preparation of  $\beta$ -ketoesters by 4-DMAP catalyzed ester exchange. *J. Org. Chem.* 50: 3618, 1985.
40. Taber, D. F.; Amedio, J. C., Jr.; and Sherrill, R. G.: Pd-mediated diazo insertions: preparation of 3-alkyl 2-carbomethoxy cyclopentenones. *J. Org. Chem.* 51: 3382, 1986.
41. Taber, D. F.; Ruckle, Robert E., Jr.; Hennessy, Michael J.: Mesyl azide, a superior reagent for diazo transfer. *J. Org. Chem.* 51: 4077, 1986.
42. Taber, D. F., and Ruckle, Robert E., Jr.: Cyclopentane construction by  $\text{Rh}_2(\text{OAc})_4$ -mediated intramolecular C-H insertion: steric and electronic effects. *J. Am. Chem. Soc.* 108: 7686, 1986.
43. Taber, D. F., Raman, K. and Gaul, M.D.: Enantioselective ring construction: synthesis of (+)-estrone methyl ether. *J. Org. Chem.* 52: 28, 1987.
44. Taber, D. F. and Schuchardt, J. S.: Symmetry in retrosynthetic analysis: synthesis of pentalenolactone E methyl ester. *Tetrahedron* 43: 5677, 1987.
45. Prakash, C.; Roberts, L. J. II; Saleh, S. A.; Taber, D. F.; and Blair, I. A. Synthesis of Putative Prostaglandin  $\text{D}_2$  Metabolites. *Advances in Prostaglandin, Thromboxane and Leukotriene Research*, Samuelsson, B., Paoletti, R., and Ramswell, P. W., Eds., Raven Press, NY, 1987, V. 17, p. 781.
46. Taber, D. F.; Deker, P. B.; and Gaul, M. D.: Enantioselective construction of dialkylcarbinols: synthesis of (-)-hexadecanolide. *J. Am. Chem. Soc.* 109, 7488, 1987.
47. Taber, D. F.; Amedio, J. C., Jr.; and Jung, K.-Y.:  $\text{P}_2\text{O}_5/\text{DMSO}/\text{Triethylamine}$  (PDT): a convenient procedure for oxidation of alcohols to ketones and aldehydes. *J. Org. Chem.* 52: 5621, 1987.
48. Taber, D.F.; Deker, P.B.; Fales, H.M.; Jones, T.H.; and Lloyd, H.A.: Enantioselective construction of heterocycles: synthesis of (R,R)-solenopsin B. *J. Org. Chem.* 53: 2968, 1988.
49. Taber, D. F.; Amedio, J.C., Jr.; Raman, K. Enantioselective ring construction with control of side-chain stereochemistry: synthesis of (+)-isoneonepentalactone. *J.*

- Org. Chem. 53:2984-2990, 1988.
50. Prakash, P.; Saleh, S.; Roberts, L.J. III; Blair, I.A.; Taber, D.F. Synthesis of the major urinary metabolite of prostaglandin D<sub>2</sub>. J. Chem. Soc. Perkin Trans. I, 1988, 2821.
  51. RajanBabu, T. V.; Nugent, W.A.; Taber, D. F.; Fagan, P. J. Stereoselective cyclization of enynes mediated by metallocene reagents. J. Am. Chem. Soc. 110: 7128, 1988.
  52. Prakash, C.; Saleh, S.; Sweetman, B. J.; Taber, D. F.; Blair, I. A. A synthon for C-20 trideuterated eicosanoids: Preparation of [<sup>2</sup>H<sub>3</sub>]-arachidonic acid. J. Labelled Cmpds. and Radiopharm. XXVII: 539, 1989
  53. Taber, D. F.; Amedio, J. C.; Jr.; Gulino, F. Selective decarbalkoxylation of β-keto esters. J. Org. Chem. 54: 3474, 1989.
  54. Taber, D. F. Mack, J. F., Rheingold, A. L. and Geib, S. J. Enantioselective Robinson annulation: synthesis of (+)-O-methyljoubertiamine. J. Org. Chem. 54: 3831, 1989.
  55. Nugent, W. A. and Taber, D. F. Zirconium-mediated ring construction from dienes: remarkable effect of ligands on stereochemistry. J. Am. Chem. Soc. 111: 6435, 1989.
  56. Prakash, C.; Saleh, S.; Taber, D. F.; Blair, I. A. Synthesis of trideuterated o-alkyl platelet activating factor and lyso derivatives. Lipids 24: 786, 1989.
  57. Prakash, C.; Saleh, S.; Taber, D.F.; Blair, I.A. A practical route for the synthesis of prostaglandin D<sub>2</sub> metabolites. Syn. Comm. 19: 245, 1989.
  58. Nugent, W.A.; RajanBabu, T.V.; Taber, D.F. "One-Electron" vs. "Two-Electron" cyclizations mediated by titanium and zirconium reagents *Chemica Scripta* 29: 439 (1989).
  59. Prakash, C.; Saleh, S.; Taber, D. F.; Wilkinson, Grant R.; Blair, I. A. Deuterium labelling of the antidepressant drug doxepin for disposition studies in human subjects. J. Labelled Cmpds. and Radiopharm. XXVIII: 1037, 1990
  60. Taber, D.F.; Hoerrner, R.S. Column Chromatography: Isolation of Caffeine J. Chem. Educ. 68: 73-73. (1991).
  61. Taber, D.F.; Hoerrner, R.S.; Hagen, M.D. A practical preparation of the indolizidine nucleus: Synthesis of (±)-elaekanine A. J. Org. Chem. 56: 1287, 1991.

62. Taber, D.F.; Silverberg, L.J. Enantioselective reduction of  $\beta$ -keto esters. *Tetrahedron Letters* 32: 4227, 1991.
63. Taber, D.F.; Silverberg, L.J.; Robinson, E.D. Cyclopentane construction with control of side-chain configuration: Synthesis of (+)-brefeldin A. *J. Am. Chem. Soc.* 113: 6639, 1991.
64. Taber, D.F.; Hennessy, M.J.; Louey, J.P. Rh-mediated cyclopentane construction can compete with  $\beta$ -hydride elimination: Synthesis of ( $\pm$ )-tochuinyl acetate. *J. Org. Chem.* 57:436, 1992.
65. Taber, D.F.; Hoerrner, R.S. Enantioselective Rh-mediated synthesis of (-)-PGE<sub>2</sub> methyl ester. *J. Org. Chem.* 57: 441, 1992.
66. Taber, D.F.; Stachel, S.J. On the mechanism of the Wolff-Kishner reduction. *Tetrahedron Lett.* 33: 903, 1992.
67. Taber, D.F.; Rahimizadeh, M. Amide to ester conversion: A practical route to the carfentanil class of analgetics. *J. Org. Chem.* 57: 4037, 1992.
68. Taber, D.F.; Deker, P.B.; Silverberg, L.J. Enantioselective Ru-mediated synthesis of (-)- indolizidine 223AB. *J. Org. Chem.* 57: 5990, 1992.
69. Taber, D.F.; Meagley, R.P. Synthesis of 2-chloroethyl (<sup>13</sup>C)- methyl sulfide. *J. Labelled Cmpds. and Radiopharm.* 31: 849, 1992.
70. Taber, D.F. On the attempted synthesis of 3 $\beta$ -hydroxy-7 $\beta$ -kemp-8(9)-en-6-one. *Tetrahedron Letters* 34: 1833, 1993.
71. Taber, D.F.; Louey, J.P.; Lim, J.A. On the reversibility of alkene cyclozirconation. *Tetrahedron Letters* 34: 2243, 1993.
72. Taber, D.F.; Wang, Y. Stachel, S.J. Alkyl radical generation by reduction of a ketone tosylhydrazone. *Tetrahedron Letters* 34: 6209, 1993.
73. Taber, D.F.; Wang, Y. Preparation of 2-chloroethyl-1,1-d<sub>2</sub> phenyl sulfide without appreciable scrambling. *J. Org. Chem.* 58: 6470, 1993.
74. Taber, D.F.; Bhamidipati, R.S.; Thomas, M.L. Cascade cyclization: Synthesis of (+)- tuberine. *J. Org. Chem.* 59: 3442, 1994.
75. Taber, D.F.; You, K. Synthesis of ethyl w-<sup>2</sup>H<sub>5</sub>-docosa-4,7,10,13,16,19-hexaenoate. *J. Labelled Cmpds. and Radiopharm.* 34: 747, 1994.

76. Taber, D.F.; Houze, J.B. The 2-hydroxycitronellols, convenient chirons for natural products synthesis. *J. Org. Chem.* 59: 4004-4006, 1994.
77. Taber, D.F.; Walter, R.; Meagley, R.P. Intramolecular C-H insertion by an alkylidenecarbene: diastereoselective synthesis of a taxol A ring synthon. *J. Org. Chem.* 59: 6014-6017, 1994.
78. Taber, D.F.; Louey, J.P.; Wang, Y.; Nugent, W.A.; Dixon, D.A.; Harlow, R.L. Stereoselectivity in intramolecular diene cyclozirconation: A combined experimental and theoretical approach. *J. Am. Chem. Soc.* 116: 9457, 1994.
79. Taber, D.F.; Meagley, R.P. Diastereoselectivity in uncatalyzed intramolecular C-H insertion by an alkylidene carbene. *Tetrahedron Lett.* 35: 7909, 1994.
80. Taber, D.F.; Rahimizadeh, M. Hexasubstituted benzenes by alkyne cyclotrimerization. *Tetrahedron Lett.* 35: 9139, 1994.
81. Taber, D.F.; You, K. New synthon for the convergent construction of skipped conjugation polyenes: Synthesis of Ethyl Docosa-4,7, 10, 13, 16, 19-hexaenoate. *J. Org. Chem.* 60: 139, 1995.
82. Taber, D.F.; Yet, L.; Bhamidipati, R.S. Conversion of phenyldimethylsilyl to the hydroxyl in the presence of a carbon-carbon double bond. *Tetrahedron Lett.* 36: 351, 1995.
83. Taber, D.F.; Rahimizadeh, M.; You, K.K. Enantioselective synthesis of the Dendrobatid alkaloid (-)-Indolizidine 207A. *J. Org. Chem.* 60: 529 (1995).
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218. Roy, J.; Oger, C.; Thireau, J.; Roussel, J.; Mercier-Touzot, O.; Faure, D.; Pinot, E.; Farah, C.; Taber, D. F.; Cristol, J. P.; Lee, J. C. Y.; Lacampagne, A.; Galano, J. M.; Durand, T.; Le Guennec, J. Y. Nonenzymatic lipid mediators, neuroprostanes, exert the antiarrhythmic properties of docosahexaenoic acid. *Free Radical Biology and Medicine* 86: 269-278 (2015).
219. Taber, D. F.; Brannick, S. J. One step preparation of a crystalline product by nucleophilic aromatic substitution. *J. Chem. Educ.* 92: 1261-1262 (2015).

### Patents

“Treatment of osteoporosis and autoimmune disease with astrogorgiadiol”  
US7345035 issued March 18, 2008

“Methods of making stable, homogenous potassium hydride dispersions” Filed Feb 4,  
2010 U.S. Appln. No 12/700,161

“An -NH- terminated silicon surface and a method for its preparation” Submitted Oct  
2011 U.S. Appln. No. 61/416,959

### Books

Taber, D.F. Intramolecular Diels-Alder and Alder Ene Reactions, V. 18 of  
Reactivity and Structure Concepts in Organic Chemistry, Springer-Verlag, New  
York, 1984.

Bell, C.E., Jr.; Clark, A.K.; Taber, D.F.; Rodig, O.R. Organic Chemistry  
Laboratory: Standard & Microscale Experiments, 2nd Ed. Saunders College Publishing,  
Philadelphia, 1996.

Bell, C.E., Jr.; Taber, D.F.; Clark, A.K. Organic Chemistry Laboratory: Standard &  
Microscale Experiments, 3rd Ed. Harcourt College Publishers, Orlando, Florida, 2001.

Taber, D.F. Organic Synthesis: State of the Art 2003-2005, Wiley, New York, 2006



Taber, D. F. Organic Spectroscopic Structure Determination: A problem-based learning approach, Oxford University Press, New York, 2007.

Taber, D.F. Organic Synthesis: State of the Art 2005-2007 Wiley, New York, 2008

Taber, D. F. Organic Synthesis: State of the Art 2007-2009, Oxford University Press, New York, 2011.

Taber, D. F. Organic Synthesis: State of the Art 2009-2011, Oxford University Press, New York, 2013.

Taber, D. F. Organic Synthesis: State of the Art 2011-2013, Oxford University Press, New York, 2015.

### **Contributed Chapters**

Taber, D.F.; Hennessy, M.J.; Hoerrner, R.S.; Raman, K.; Ruckle, R.E., Jr.; Schuchardt, J.S. Cyclopentane Construction by Rh-Catalyzed Intramolecular C-H Insertion: Scope and Selectivity. in Catalysis of Organic Reactions, Blackburn, D.W., Ed. Marcel Dekker, Inc., New York, 1990, pp. 43-60.

Taber, D.F. Carbon-Carbon Bond Formation by C-H Insertion. Comprehensive Organic Synthesis, V. 3, Pattenden, G. Ed., Pergamon Press, Oxford, 1991.

Taber, D.F.; Askani, R. Synthesis of Nitro, Nitroso and Related Compounds. Comprehensive Organic Synthesis, V. 6, Winterfeldt, E. Ed., Pergamon Press, Oxford, 1991.

Taber, D.F. Formation of C-C Bonds by C-H Insertion. Houben-Weyl, Methods of Organic Chemistry, V. E21, Helmchen, G. Ed., Georg Thieme Verlag, Stuttgart, 1995, p. 1127.

Taber, D.F.; Stiriba, S.-E. Natural Product Synthesis by Rh-Mediated Intramolecular C-H Insertion Organic Synthesis Highlights IV, H.-G. Schmalz, Ed. Wiley-VCH, Weinheim, 2000.

Taber, D.F.; Louey, J.P.; Wang, Y.; Zhang, W. Cyclometallation of a Computationally Designed Diene: Synthesis of (-)-Androst-4-ene-3,16-dione Computational Organometallic Chemistry, T.R. Cundari, Ed. . Marcel Dekker, Inc., New York, 2001, pp. 205-216.

Taber, D.F.; Lahuerta, P.; Louey, J.P.; Malcolm, S.C.; Meagley, R.P.; Stiriba, S.-e.; You, K.K. Rhodium-Mediated Intramolecular C-H Insertion: Probing the Geometry of the Transition State. Computational Organometallic Chemistry, T.R. Cundari, Ed. . Marcel Dekker, Inc., New York, 2001, pp. 217-236.

Taber, D.F.; Joshi, P. V. Cyclopentane Construction by Rhodium(II)-Mediated Intramolecular C-H Insertion. Modern Rhodium-Catalyzed Organic Reactions. P. A. Evans, Ed. Wiley-VCH, Weinheim, 2005. pp. 357-377.

### Invited Lectures

- 1976 Vanderbilt University August 1
- 1977 Vanderbilt University Medical School February 8
- 1977 Vanderbilt University March 17
- University of Oklahoma April 14
- Vanderbilt University September 14
- 1979 Gordon Research Conference on Natural Products July 27
- 1980 Vanderbilt University January 24
- University of Utah July 29
- Utah State University August 7
- 1982 Johns Hopkins University, Baltimore, MD, October 13
- Temple University, Philadelphia, PA, October 21
- ICI Americas, Wilmington, DE, November 2
- 1983 NIADDK-NHLBI Organic Chemistry Discussion Group, Jan
- Vanderbilt University, Nashville, TN, March 31
- 1984 Symposium, "Latest Trends in Organic Synthesis," Blacksburg, VA, May 30
- Columbia University, New York, NY, July 5
- Millersville University, Millersville, PA, October 10
- Dupont Experimental Station, Wilmington, DE, November
- St. Joseph's University, Philadelphia, PA, November 28
- 1985 Rutgers, Newark, NJ, March 28
- Schering Corporation, Bloomfield, NJ, April 17
- Philadelphia Organic Chemists' Club, Philadelphia, PA,
- Tohoku College of Pharmacy, Sendai, Japan, July 9

University of Tokyo, Tokyo, Japan, July 17  
Tokyo Institute of Technology, Tokyo, Japan, July 19  
SUNY Stony Brook, Stony Brook, NY, October 3  
CUNY, Queens College, Flushing, NY, October 23  
Aberdeen Proving Ground, MD, October 30  
University of Virginia, Charlottesville, VA, November 1  
Dickinson College, Carlisle, PA, November 15  
1986 College of William and Mary, Williamsburg, VA, Jan 17  
Hoffmann-LaRoche, Nutley, NJ, January 23  
Lederle Laboratories, Pearl River, NY, January 24  
Sandoz Research Institute, East Hanover, NJ, March 31  
University of Grenoble, Grenoble, France, May 23  
ETH, Zurich, Switzerland, June 2  
Ruprecht-Karls Univ., Heidelberg, W. Germany, June 4  
University of Reims, Reims, France, June 5  
Dupont Central Research, Wilmington, DE, August 26  
Susquehanna Valley Section, ACS, Wilkes-Barre, PA,  
Stuart Pharmaceuticals, Wilmington, DE, December 9 1  
1987 Dupont Biomedical Products, Wilmington, DE, March 25  
Givaudan Corporation, Clifton, NJ, March 27  
Bryn Mawr College, Bryn Mawr, PA, April 10  
Middle Atlantic Regional Meeting, ACS, Pomona, NJ, May  
American Cyanamid, Bound Brook, NJ June  
Shippensburg University, Shippensburg, PA October 23  
Dupont Jackson Labs, Deepwater, NJ October 30  
University of Rochester, Rochester, NY, December 2  
1988 Pennsylvania State University, State College, PA,  
University of Houston, Houston, TX, April 22  
Organic Reactions Catalysis Society, San Antonio, TX,

Takasago International Corp., Tokyo, Japan, May 24  
Tokyo Institute of Technology, Tokyo, Japan, May 25  
Sagami Chemical Research Center, Kanagawa, Japan, May  
Kyoto Institute of Technology, Kyoto, Japan, June 3  
Kyushu Symposium on Natural Products Chemistry,  
Kyushu University, Fukuoka, Japan, June 7  
Du Pont Central Research, Wilmington, DE, September 23  
Kansas State University, Manhattan, KS, November 3  
University of Kansas, Lawrence, Kansas, November 4  
1989 CRDCC, U. S. Army, Aberdeen, MD, January 19  
Hunter College, New York, NY, March 3  
Ciba-Geigy, Summit, NJ, April 6  
Ciba-Geigy, Basel, Switzerland, May 9  
Howard University, Washington, D.C., Sept. 15  
SUNY, Binghamton, NY, October 20  
Allergan, Inc., Irvine, CA., November 3  
Kyowa Hakko Co., Shizuoka, Japan, November 6  
Nagoya University, Nagoya, Japan, November 7  
International Symposium on Carbene Chemistry, Kyoto Japan, Nov. 9  
Southeast Regional Meeting, ACS, Baton Rouge, LA,  
1990 Lycoming College, Williamsport, PA, Feb. 14  
UMBC, Baltimore, MD, March 6  
Emory University, Atlanta, GA, April 17  
Middle Atlantic Regional Meeting, ACS, Madison, NJ,  
Eli Lilly & Co., Indianapolis, IN, June 26  
Rutgers University, Newark, NJ, October 11  
University of Pennsylvania, Philadelphia, October 29  
1991 New York Academy of Sciences, New York, NY Jan 8  
Brigham Young University, Provo, Utah March 21

Hoffmann-La Roche, Basel, August 19  
University of Basel August 20  
University of Konstanz August 21  
Academy of Sciences, Berlin, August 23

1992 Columbia University, New York, Jan 16  
Dupont Central Research & Development, Feb 14  
Allergan, Inc., Irvine, CA, 10 March  
Stanford University, Stanford, CA April 22  
ICI Americas, Richmond, CA April 23  
Texas A&M, College Station, TX May 13  
University of Monterrey, Mexico June 12  
Adelphi University, Garden City, NY Sep 17  
University of Maryland, College Park, MD Sep 22  
Fordham University, Bronx, NY Oct. 20  
Georgetown University, Washington, D.C. Oct.27  
Crystal City,

1993 E. Stroudsburg State Univ.; East Stroudsburg, PA Feb. 2  
ACS National Meeting, Denver, March 29  
Peking University, Beijing, June 7  
USA-Japan-China Symposium on Catalysis, Beijing, June 10  
Shanghai Institute of Organic Chemistry, June 16  
Fudan University, Shanghai, June 17  
SUNY Albany Oct 5  
SUNY Stony Brook Oct 28  
Scientific Conference on Chemical Defense Research, Aberdeen, MD Nov

- 1994 Syracuse University, Syracuse, NY Sep 20  
Western Maryland College, November 28  
SmithKline Beecham, King of Prussia, PA Dec 6  
University of Delaware, Newark, DE Dec 7
- 1995 Syntex Pharmaceuticals, Palo Alto, CA April 20  
University of California, Davis April 21  
DuPont Central Research April 24  
78th Canadian Society for Chemistry Conference and Exhibition, Guelph, May 31  
(Invited speaker)  
Drexel University, Philadelphia, PA June 7  
Swarthmore College, Swarthmore, PA September 25  
Dupont Merck Pharmaceuticals, Deepwater, NJ Oct 3  
Rensselaer Polytechnic, Troy, NY Oct 12  
GE Central Research, Schenectady, NY Oct 13  
University of Victoria, Victoria, BC Oct 19  
University of British Columbia, Vancouver, BC Oct 20  
The Upjohn Company, Kalamazoo, Michigan Nov 10
- 1996 Towson State University, Towson, MD April 18  
Middle Atlantic Regional Meeting, American Chemical Society, Villanova, PA  
(Invited speaker)  
SIPSYS, Avrille, France, June 25  
Ecole Nationale Superieure, Paris, June 26  
Gif-sur-Yvette, June 28th  
International Conference on Organic Synthesis, Amsterdam, June 30- July 4  
(Invited speaker)  
14th Biennial Conference on Chemical Education, Clemson University, Aug 4-8

- (Invited speaker)  
Schering-Plough, Kenilworth, NJ, Sep. 26  
Abbott Labs, Chicago, IL, Nov. 7  
Rider College, Lawrenceville, NJ, Nov. 18
- 1997 Pharmacopeia, Inc., Princeton, NJ Jan. 16  
Manhattan College, New York City, Jan. 22  
North Jersey ACS Organic Section, Union College, Cranford, NJ April 28  
Bryn Mawr College, Bryn Mawr, PA Oct. 3rd  
Southeast Regional Meeting, American Chemical Society, Roanoke, VA, Oct. 21  
(Invited speaker)  
IUPAC International Conference on Biodiversity and Bioresources, Phuket,  
Thailand (Invited speaker)  
Rowan University, Glassboro, NJ December 2
- 1998 Dickinson College, Carlisle, PA March 5  
U. of Barcelona, Spain June 30  
Johnson-Matthey, West Deptford, NJ August 13  
ACS National Meeting, Boston, MA August 26 (invited speaker)  
Lafayette College, Easton, PA September 8  
Symposium, "Latest Trends in Organic Synthesis," Gainesville, FL, Oct 30  
(invited speaker)  
Smith Kline Beecham, November 17
- 1999 University of Hong Kong January 15  
Chinese University of Hong Kong January 19  
University of Science and Technology, Hong Kong January 20  
Middle Atlantic Regional Meeting, American Chemical Society, May 17 (invited  
speaker)  
Organometallics in Organic Synthesis (OMCOS), Versailles, France July 21  
(invited speaker)



Gordon Research Conference on Natural Products, Henniker, NH July 26 (invited speaker)

University of Delaware, Newark, Sep. 17

Elizabethtown College, Elizabethtown, PA Sept. 29

Franklin & Marshall College, Lancaster, PA Sept. 29

Florida State University, Tallahassee, Oct. 5

SERMACS (Southeast Regional Meeting), Knoxville, TN Oct. 19 (invited speaker)

Sloan-Kettering, New York, NY Oct. 26

Salisbury State University, Salisbury, MD Nov. 2

2000 National Institutes of Health, Bethesda, MD March 9

International Conference on Organic Synthesis, Warsaw, July 1- July 5 (Invited speaker)

Stockton State University, Pomona, NJ Oct. 9

Johns Hopkins University, Baltimore, MD Oct 10

2001 Brigham Young University, Provo, UT January 24

Reed College, Portland, OR January 26

Oregon State University, Corvallis, OR January 29

Wyeth-Ayerst, Pearl River, NY March 29

CB Research, New Castle, DE June 12

OMCOS-11, Taipei, Taiwan July 23

Research Review, Center for Catalytic Science and Technology, University of Delaware, Oct.11

Indiana U. of Pennsylvania, Indiana, PA Nov. 7

Allegheny College, Meadville, PA Nov. 8

Edinboro U. of Pennsylvania, Edinboro, PA Nov. 8

Duquesne University, Pittsburgh, PA Nov. 9

- Ursinus College, Collegeville, PA Nov. 16
- 2002 South China Agricultural University, Guangzhou, Jan. 7
- Temple University, Philadelphia, PA March 28
- Sphinx Pharmaceuticals, Research Triangle Park, NC June 7
- UC Irvine, Sept. 12
- Scripps Institute, San Diego, CA Sept. 13
- CalTech, Pasadena, CA Sept. 16
- 2003 KAIST, Daejon, Korea March 17
- Korea University, Seoul, March 19
- Seoul National University, March 20
- ACS National Meeting, New Orleans, March 24
- Philadelphia Organic Chemists' Club, April 24 (invited speaker)
- Salisbury University, Nov. 5
- 2004 Rutgers University, January 20
- Lehigh University, February 4
- Concurrent Pharmaceuticals, February 12
- ACS National Meeting, Anaheim, March 29 (invited speaker)
- Bristol-Myers Squibb, New Brunswick, NJ June 3
- International Conference, Chemistry Biology Interface: Synergistic New  
Frontiers, Delhi, India, Nov. 22-77 (plenary lecturer)
- 2005 Rowan University Feb 28
- Symposium on the Chemistry and Biology of Biomolecules, Montpellier, France  
March 20-25 (invited speaker)
- UT Southwestern, Dallas Sep 21

Southern Methodist University, Dallas, TX September 22

UT Arlington, Arlington, TX September 23

Singapore International Chemical Conference 4 Dec. 8-10 (invited speaker)

2006 Lilly Pharmaceuticals, Indianapolis, IN Jan. 17

IUPUI, Indianapolis, IN Jan 18

Notre Dame University, South Bend, IN Jan 19

Merck Process, Rahway, NJ Feb. 1

ACS National Meeting, Atlanta, GA (invited speaker), H.C. Brown Award Symposium, March 29

ACS Middle Atlantic Regional Meeting, Hershey, PA (invited symposium speaker), June 4

Morgan State University, Oct. 9

2007 University of Oxford, April 24

University of Nottingham, April 25

Symposium on C-H Activation in Organic Synthesis, Loughborough, England, April 26 (invited speaker)

AstraZeneca Macclesfield, April 27<sup>th</sup>

IUPAC Organometallics in Organic Synthesis, Nara, Japan August 2<sup>nd</sup>

University of the Sciences, Philadelphia Sept. 24<sup>th</sup>

Rochester Institute of Technology, Oct. 24<sup>th</sup>

2008

University of Munich Jan 16<sup>th</sup>

University of Illinois, Chicago March 13

Infinity Pharmaceuticals, Cambridge, MA June 24

University of Florence July 7

2008 Lead speaker, Symposium “Innovations in the Organic Chemistry Curriculum” 20<sup>th</sup> Biennial Conference on Chemical Education, Bloomington, IN July 2008

2009

University of Delaware March 6<sup>th</sup>

Schering-Plough April 16<sup>th</sup>

2<sup>nd</sup> Pennsylvania Organic Chemistry Curriculum Development Conference, Immaculata University, Immaculata, PA May 27<sup>th</sup> (invited speaker)

Invited speaker, meeting on the Schweinfurthins and Related Natural Products, NIH/Frederick, December 11, 2009

2010

West China School of Pharmacy, Chengdu, May 10<sup>th</sup>

USTC, Hefei, May 13<sup>th</sup>

University of Science and Technology, Qingdao, May 15<sup>th</sup>

Institute of Materia Medica, Beijing, May 17<sup>th</sup>

Peking University, Beijing, May 18<sup>th</sup>

1<sup>st</sup> Annual World Congress of Catalytic Asymmetric Synthesis-2010, Beijing, May 20<sup>th</sup> (invited speaker)

University of Utah, Salt Lake City, UT June 11<sup>th</sup>

ACS National Meeting, Boston, August 21<sup>st</sup> (invited speaker)

Cephalon, Inc. West Chester, PA Oct. 26<sup>th</sup>

Pacificchem, Honolulu, December 15, 19

2011

Fifth International Symposium “The Chemistry of Aliphatic Diazo Compounds: Advances and Outlook” St. Petersburg, Russia, June 7-8 (Invited Speaker)

Gordon Research Conference on Natural Products, July 24-29 ( Invited Speaker)

West Virginia University, Oct 5

Philadelphia Organic Chemists Club, Oct 27 (Allan R. Day Award)

University of New Orleans, Nov 11

2013

University of Delaware May 10th

2015

1<sup>st</sup> International Caparica Christmas Conference on Translational Chemistry  
December 8<sup>th</sup>

2016

23<sup>rd</sup> Conference on Isoprenoids, Minsk, Belarus September 5th