

DOLPH ULRICH
Curriculum Vitae

Current Rank: Full Professor

Dates of Promotion at Purdue:

1968 Assistant Professor
1971 Associate Professor
1984 Full Professor

Academic Training:

Moravian College, 1958-59
Oberlin College, A.B., 1963
Wayne State University, Ph. D., 1968

Major Teaching and Scholarly Interest Area:

Formal Logic

Courses Taught at Purdue:

PHIL 110E Introduction to Philosophy
PHIL 150 Principles of Logic
PHIL 450 Symbolic Logic
PHIL 550 Advanced Symbolic Logic
PHIL 590 Directed Readings in Philosophy
PHIL 650 Advanced Topics in Logic

Awards and Fellowships:

Teaching Award, Department of Philosophy, 1975-76
Visiting Research Fellow, Automated Reasoning Project, Institute for Advanced Studies,
Australian National University, Feb.-April, 1988.

Book:

Elementary Symbolic Logic (with William Gustason), Holt, Rinehart and Winston, New York, 1973. Reprinted [with revisions] by Waveland Press, Prospect Heights, 1981. Second (and current) edition: Waveland Press, 1989.

Solutions Manual to Accompany Elementary Symbolic Logic (with William Gustason), Holt, Rinehart and Winston, New York, 1973. Reprinted [with revisions] by Waveland Press, Prospect Heights, 1981. Second edition: Waveland Press, 1989.

Refereed Papers:

Solution to a problem posed by Kalicki, **Proceedings of the American Mathematical Society**, vol. 22 (1969), pp. 728-729.

- Some results concerning finite models for sentential calculi*, **Notre Dame Journal of Formal Logic**, vol. 13 (1972), pp. 363-368.
- Finitely-many-valued logics with infinitely-many-valued extensions: two examples*, **Proceedings of the Fifth International Symposium on Multiple-valued Logic**, Bloomington, 1975, pp. 406-411.
- On a modal system of R. A. Bull's*, **Notre Dame Journal of Formal Logic**, vol. 17 (1976), pp. 479-480.
- On a property of matrices for subsystems of IC^+* , **Zeitschrift für mathematische Logik und Grundlagen der Mathematik**, vol. 22 (1976), pp. 193-194.
- Generalization of a result of Pahi's*, **Zeitschrift für mathematische Logik und Grundlagen der Mathematik**, vol. 22 (1976), pp. 437-438.
- Semantics for $S4.1.2$* , **Notre Dame Journal of Formal Logic**, vol. 19 (1978), pp. 461-464.
- RMLC: Solution to a problem left open by Lemmon*, **Notre Dame Journal of Formal Logic**, vol. 22 (1981), pp. 187-189.
- Strict implication in a sequence of extensions of $S4$* , **Zeitschrift für mathematische Logik und Grundlagen der Mathematik**, vol. 27 (1981), pp. 201-212.
- Answer to a question raised by Harrop*, **Bulletin of the Section of Logic** (Polish Academy of Sciences), vol. 11 (1982), pp. 140-141.
- Models of three-valued calculi in implicational $S5$* , **Bulletin of the Section of Logic** (Polish Academy of Sciences), vol. 12 (1983), pp. 73-75.
- The finite model property and recursive bounds on the size of countermodels*, **Journal of Philosophical Logic**, vol. 12 (1983), pp. 477-480.
- Answer to a question suggested by Schumm*, **Zeitschrift für mathematische Logik und Grundlagen der Mathematik**, vol. 30 (1984), pp. 385-387.
- A descending chain of incomplete extensions of implicational $S5$* , **Zeitschrift für mathematische Logik und Grundlagen der Mathematik**, vol. 31 (1985), pp. 201-208.
- On the characterization of sentential calculi by finite matrices*, **Reports on Mathematical Logic**, vol. 20 (1986), pp. 63-86.
- A five-valued model of the E-p-q theses*, **Notre Dame Journal of Formal Logic**, vol. 29 (1988), pp. 137-138.
- The nonexistence of finite characteristic matrices for subsystems of R_I* , Chapter 12 (pp. 177-178) of **Directions in Relevant Logic**, ed. Jean Norman and Richard Sylvan, Kluwer Academic Publishers, Dordrecht, 1989.
- An integer-valued matrix characteristic for implicational $S5$* , **Bulletin of the Section of Logic** (Polish Academy of Sciences), vol. 19 (1990), pp. 87-91.

On the incompleteness of a descending chain of extensions of implicational S5, **Zeitschrift für mathematische Logik und Grundlagen der Mathematik**, vol. 35 (1992), pp. 321-323.

On the independence of B from I, C, W, K'1, and Karpenko's formula X, **Bulletin of the Section of Logic** (University of Łódź), vol. 23 (1994), pp. 96-97.

The shortest possible length of the longest implicational axiom, **Journal of Philosophical Logic**, vol. 25 (1996), pp. 101-108.

New single axioms for positive implication, **Bulletin of the Section of Logic** (University of Łódź), vol. 28 (1999), pp. 39-42.

A legacy recalled and a tradition continued, **Journal of Automated Reasoning**, vol. 27 (2001), pp. 97-122. Reprinted on the CD-ROM accompanying **Automated Reasoning and the Discovery of Missing and Elegant Proofs**, Larry Wos and Gail W. Pieper, Rinton Press, Paramus, 2003.

Vanquishing the XCB Question: The methodological discovery of the last shortest single axiom for the equivalential calculus (with Larry Wos and Branden Fitelson), **Journal of Automated Reasoning**, vol. 28 (2002), pp. 107-124.

XCB, the last of the shortest single axioms for the equivalential calculus (with Larry Wos and Branden Fitelson), **Bulletin of the Section of Logic** (University of Łódź), vol. 29 (2003), pp. 131-136.

D-complete axioms for the classical equivalential calculus, **Bulletin of the Section of Logic**, (University of Łódź), vol. 31 (2005), pp. 135-142.

On two open questions concerning the implicational fragment of R-mingle, **Bulletin of the Section of Logic**, (University of Łódź), 4 pp., to appear.

Author Index:

Author Index, Volumes 1-15 (1972-1986), **Bulletin of the Section of Logic** (Polish Academy of Sciences), 1989 (26 pp.)

Technical Report:

Small matrices validating the two-variable theses of the classical equivalential and implicational calculi, **Technical Report TR-ARP-6188**, Automated Reasoning Project, Institute for Advanced Studies, Australian National University, Canberra, 1988 (16 pp.)

Foreword:

Foreword to Automated Reasoning and the Discovery of Missing and Elegant Proofs, Larry Wos and Gail Pieper, Rinton Press, Paramus, 2003, pp. vii-viii.

Abstracts:

Decidability results for some classes of propositional calculi, **Journal of Symbolic Logic**, vol. 35 (1970), pp. 353-354.

- Subsystems of full positive logic*, **Journal of Symbolic Logic**, vol. 36 (1971), p. 696.
- Subsystems of S_6 and a conjecture of Prior's*, **Journal of Symbolic Logic**, vol. 39 (1974), p. 200.
- Strict implication in S_4 , $S_{4.2}$, $S_{4.3}$, and S_5* , **Journal of Symbolic Logic**, vol. 39 (1974), pp. 404-405.
- Strict implication in some extensions of $S_{4.3}$* , **Journal of Symbolic Logic**, vol. 41 (1976), p. 288.
- Extensions of fragments of LC*, **Journal of Symbolic Logic**, vol. 41 (1976), p. 552.
- Fragments of normal modal logics* (with Ralph H. Moon), **Journal of Symbolic Logic**, vol. 46 (1981), p. 433.
- Concerning recursive bounds on the size of countermodels for propositional calculi with the finite model property*, **Abstracts of the 7th International Congress of Logic, Methodology and Philosophy of Science**, vol. 2, pp. 204-206, Salzburg, 1983.
- The strict-implicational fragments of some modal logics in the vicinity of $S_{4.9}$* , **Journal of Symbolic Logic**, vol. 48 (1983), p. 900.
- Some extensions of implicational S_5 not complete with respect to any class of frames*, **Journal of Symbolic Logic**, vol. 49 (1984), p. 707.
- Denumerable matrices for implicational and equivalential S_5* , **Journal of Symbolic Logic**, vol. 53 (1988), pp. 1003-1004.
- A four-valued matrix validating the nine-character implication-pure theses*, **Bulletin of Symbolic Logic**, vol. 1 (1995), pp. 134-135.
- On the existence of a single axiom for implicational **R-mingle***, **Bulletin of Symbolic Logic**, vol. 11 (2005), p. 459.
- Single axioms for the finitely axiomatizable extensions of strict-implicational **S3** and of some of its weaker subsystems*, **Bulletin of Symbolic Logic**, vol. 11 (2005), p. 555.
- Single axioms for a class of substructural logics contained in **BCI***, **Bulletin of Symbolic Logic**, vol. 12 (2006), p. 166.
- A short axiom pair and a shortest possible single axiom for monothetic **BCI***, **Bulletin of Symbolic Logic**, vol. 13 (2007), p. 404.
- Concise axiomatizations of implicational **R-Mingle***, **Bulletin of Symbolic Logic**, vol. 13 (2007), pp. 557-558.
- A new three-base and a single axiom for pure denumerable Lukasiewicz implication*, **Bulletin of Symbolic Logic**, to appear.

Presentations:

- “Decidability results for some classes of propositional calculi”, Association for Symbolic Logic, Annual Meeting, New Orleans, Louisiana, January 22-23, 1969.

- “The nonexistence of finite characteristic matrices for subsystems of \mathbf{R}_I ”, International Conference on Relevance Logics, St. Louis, Missouri, September 26-28, 1974.
- “Extensions of fragments of LC”, Association for Symbolic Logic, Spring Meeting, Chicago, Illinois, April 24-25, 1975.
- “Finitely-many-valued logics with infinitely-many-valued extensions: two examples”, Fifth International Symposium on Multiple-valued Logic, Bloomington, Indiana, May 13-16, 1975.
- Comments on James W. Lamb's “A skeptical argument based on the nature of epistemic justification”, Western Division Meetings, American Philosophical Association, Chicago, Illinois, April 28-30, 1977 (invited).
- “A tableau technique for teaching modal logic”, Panel on Teaching Logic, Pacific Division Meetings, American Philosophical Association, San Diego, California, March 24-25, 1979 (invited).
- “The strict-implicational fragments of some modal logics in the vicinity of S4.9”, Association for Symbolic Logic, Annual Meeting, Philadelphia, Pennsylvania, December 28-30, 1981.
- “Some problems concerning the finite model property”, Section of Logic, Technical University of Wrocław, Wrocław, Poland, August 18, 1982 (invited).
- “Some extensions of implicational S5 not complete with respect to any class of frames”, Logic Colloquium '82, Florence, Italy, August 22-28, 1982.
- “Concerning recursive bounds on the size of countermodels for propositional calculi with the finite model property”, 7th International Congress of Logic, Methodology and Philosophy of Science, Salzburg, Austria, July 11-16, 1983.
- “Denumerable matrices for implicational and equivalential S5”, Association for Symbolic Logic, Annual Meeting, San Antonio, Texas, January 23-24, 1987.
- “Extensions of the strict-implicational fragment of S5”, Automated Reasoning Project, Institute for Advanced Studies, Australian National University, Canberra, Australia, April 5, 1988 (invited).
- “Many-valued matrices for some logics of pure implication”, Indiana University Logic Group Fall Lecture Series, Indiana University, Bloomington, Indiana, Dec. 4, 1991 (invited).
- “A four-valued matrix validating the nine-character implication-pure theses”, Association for Symbolic Logic, Annual Meeting, Gainesville, Florida, March 5-8, 1994.
- “Eleven-symbol single axioms for the classical equivalential calculus: what we know, and what we don't”, 2002 Argonne Workshop on Automated Reasoning and Deduction (AWARD-2002), Argonne National Laboratory, Argonne, Illinois, July 11-13, 2002.
- “Beyond the 2- and 1-2-Properties: Finding single axioms that are \mathbf{D} -complete”, 2003 Argonne Workshop on Automated Reasoning and Deduction (AWARD-2003), Argonne National Laboratory, Argonne, Illinois, July 10-12, 2003.

“Some formulas useful in constructing single axioms for implicational **R**, **R-mingle**, **L₈₀**, **S3**, and some classes of related systems”, 2004 Argonne Workshop on Automated Reasoning and Deduction (AWARD-2004), Argonne National Laboratory, Argonne, Illinois, August 5-7, 2004.

“Introduction to PARADOX--with answers to two open questions of Hodgson’s”, 2004 Argonne Workshop on Automated Reasoning and Deduction (AWARD-2004), Argonne National Laboratory, Argonne, Illinois, August 5-7, 2004.

“On the existence of a single axiom for implicational **R-mingle**”, Joint Meeting of the Association for Symbolic Logic and the American Mathematical Society, Atlanta, Georgia, January 5-8, 2005.

“Some odd ways of looking for new single axioms”, 2005 Argonne Workshop on Automated Reasoning and Deduction (AWARD-2005), Argonne National Laboratory, Argonne, Illinois, August 11-13, 2005.

"A short axiom pair and a shortest possible single axiom for monothetic **BCI**", Association for Symbolic Logic, Annual Meeting, Gainesville, Florida, March 10-13, 2007.

"Concise axiomatizations of implicational R-Mingle", Association for Symbolic Logic, Spring Meeting (with the American Philosophical Association), Chicago, Illinois, April 19-21, 2007.

Reviews:

Of Timothy Smiley, *The independence of connectives*, **Journal of Symbolic Logic**, vol. 27 (1962), pp. 426-435; in **Journal of Symbolic Logic**, vol. 40 (1975), pp. 250-251.

Of R. Harrop, *Some forms of models of propositional calculi*, **Contributions to Mathematical Logic, Proceedings of the Logic Colloquium, Hannover 1966**, ed. H. Arnold Schmidt, et. al., North Holland Publishing Company, Amsterdam, 1968, pp. 163-174, and *On the equivalence for non-derivability testing of finite Smiley models and finite modified Smiley models*, **Zeitschrift für mathematische Logik und Grundlagen der Mathematik**, vol. 17 (1971), pp. 137-143; in **Journal of Symbolic Logic**, vol. 40 (1975), p. 251.

Of Donald Nute's **Essential Formal Semantics**, Rowman and Littlefield, Totowa, 1981; in **Journal of Symbolic Logic**, vol. 51 (1986), p. 252.

Nonprofessional Publications:

Observations of the 1980 Sutton's Warbler: songs and behavior, **Atlantic Naturalist**, vol. 34 (1981), p. 12 [transcription of a lecture presented to the Sutton's Warbler Seminar, Audubon Naturalist Society of the Central Atlantic States, Washington, D.C., June 21, 1980].

Sutton's Warbler in Indiana (with Susan H. Ulrich), **Indiana Audubon Quarterly**, vol. 61 (1983), pp. 44-46.

Guided vs. non-guided tours (with Susan H. Ulrich, Lillian Johnson, and Charles Almdale), **Bird Watcher's Digest**, vol. 15, No. 4 (March/April 1993), pp. 24-30.