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**Ajdukiewicz, K (azimierz)**

Polish. **b:** 12 December 1890, Tarnopoi. **d:** 12 April 1963, Warsaw. **Cat:** Logician; analytical philosopher. **Ints:** Logic; ontology. **Educ:** John Casimir University, Lvov. **Infls:** K. Twardowski, J. Łukasiewicz, D. Hilbert and A. Reinach. **Appts:** 1922–6, Dozent of Philosophy, John Casimir University, Lvov; 1926–8, Professor of Philosophy, Warsaw University; 1928–39, Professor of Philosophy, John Casimir University, Lvov; 1946–55, Professor of Logic, 1948–52, Rector, Adam Mickiewicz University, Poznan; 1955–61, Professor of Logic, Warsaw University.

**Main publications:**

- (1949) *Problems and Theories of Philosophy*, London: Cambridge University Press, 1973.
- (1958) 'On the freedom of science', *Review of the Polish Academy of Science* 2, 1/2: 1–19.
- (1961) 'A method of eliminating intensional sentences and sentential formulae', *Atti del XII Congresso Internazionale di Filosofia. Firenze* 5: 17–24.
- (1965) *Pragmatic Logic*, Dordrecht: D. Reidel, 1974.
- (1977) *The Scientific World-Perspective and Other Essays. 1931–1963*, Dordrecht: D. Reidel (with full bibliography, 1913–1974).
- (1984) 'On definitions', *Dialectics and Humanism* 2/3: 235–56.

**Secondary literature:**

- Czeżowski, T. (1977) 'Bibliography of Ajdukiewicz's works', in K. Ajdukiewicz; *The Scientific World-Perspective*, pp. 363–9.
- Küng, G. (1989) 'Ajdukiewicz's contribution to the realism/idealism debate', in K. Szaniawski (ed.), *The Vienna Circle and the Philosophy of the Lvov-Warsaw School*, Dordrecht: Kluwer.
- Marciszewski, W. (1991) 'K. Ajdukiewicz and the Polish debate on universals', *Quaderni* 391/30: 7–16.
- Poli, R. (1993) 'The dispute over reism: Kotarbiński–Ajdukiewicz–Brentano', in *Polish Scientific Philosophy: The Lvov-Warsaw School*, Amsterdam: Rodopi, pp. 339–54.
- Smsi, V. and Woleński, J. (eds) (1995) *The Heritage of Kazimierz Ajdukiewicz*, Amsterdam: Rodopi.
- Steizner, W. (1992) 'Pragmatics and Ajdukiewicz's logical concepts of language', *Ruch Filozoficzny* 49 3/4: 277–87.

Ajdukiewicz is one of the most influential thinkers in Polish philosophy in our century. In logic his contributions rest upon: being the promoter of formalizing deductive systems and outlining the logic of questions; creating the theory of semantic

categories and examining the syntactic connexion; explicating the associationist conception of meaning; constructing his own directical and then codenotational theory of meaning; and analyzing the foundations of classifying and defining. Formulating rules of reducing semantic categories of expressions, he initiated the idea of categorial grammars (next developed, for example, by J. Lambek and Y. Bar-Hillel).

In epistemology and ontology Ajdukiewicz was the originator of radical and then moderate conventionalism, and in the end a defender of methodological pluralism, an anticipator of radical empiricism and a critic of transcendental idealism and philosophical irrationalism. He evolved the method of semantic paraphrasing in solving metaphysical problems.

The genuine masterpieces are his short articles concerning the problems of ontology (for example, the notions of existence, substance, matter, spirit, time, change and finality) and ethics (on the concepts of life-design, liberty and justice) and his clear and didactically matchless handbooks of logic and philosophy.

**Sources:** J. J. Jadacki (1980) 'On the sources of contemporary Polish logic', *DH* 4: 163–83; Z. Jordan (1945) *The Development of Mathematical Logic and of Logical Positivism in Poland Between the Two Wars*, London: OUP; H. Skolimowski (1967) *Polish Analytical Philosophy*, London: Routledge & Kegan Paul; J. Woleński (1988) *Logic and Philosophy in the Lvov-Warsaw School*, Dordrecht: Kluwer.

JACEK JULIUS JADACKI

**Chwistek, L(eon)**

Polish. **b:** 13 June 1884, Zakopane, Poland. **d:** 20 August 1944, Moscow. **Cat:** Logician; analytical philosopher; aesthetician; painter. **Educ:** Jagiellonian University and Academy of Fine Arts, Cracow. **Infls:** S. Pawlicki, W. Heinrich, H. Poincaré and B. Russell. **Appts:** 1930–9, Professor of Logic, John Casimir University, Lvov.

**Main publications:**

- (1924–6) 'The theory of constructive types', *Rocznik Polskiego Towarzystwa Matematycznego* 2: 9–48; 3: 92–141.
- (1935) *The Limits of Science*, London: Routledge & Kegan Paul, 1948.
- (1938) (with W. Hetper) 'New foundation of formal metamathematics', *The Journal of Symbolic Logic* 3, 1: 1–36.
- (1939) 'A formal proof of Gödel's theorem', *The Journal of Symbolic Logic*, 4, 2: 61–8.
- (1967) 'Antinomies of formal logic', in Z. Jordan (ed.), *Polish Logic, 1920–1939*, Oxford: Oxford University Press.

**Secondary literature:**

- Estreicher, K. (1971) 'Bibliografia pism L. Chwisteka', in *L. Chwistek. Biografia artysty*, Cracow: PWN, pp. 369–80.
- Jadacki, J. J. (1984) 'On L. Chwistek's semiotic views', in J. Pelc *et al.* (eds) *Sign, System and Function*, Berlin: Mouton.
- Pasenkiewicz, K. (1964) 'L. Chwistek's theory of manifold reality', *Studia Filozoficzne (Selected Articles)* 2: 167–84.

In logic Chwistek proposed a certain simplification of the Russellian theory of types; he also elaborated his own version of the pure theory of types. He made a suggestion of bracketless logical notation (next developed by J. Łukasiewicz). He introduced the precision notion of semantics. Using the method of explication by formalization (the so-called *constructive method*) he created an axiomatic system of elementary semantics (the notion of containment of one expression in another being primitive). He also made an exact rendering of rules of definition. In the field of the foundations of mathematics he was the creator of the so-called rational metamathematics. In semiotics he described the peculiarities of natural languages: their indefiniteness, ambiguity and self-contradiction.

His epistemology was founded on broad empiricism and realism. In ontology, his conception of plurality of realities (including natural, physical, phenomenalist and visional) influ-

anced the further discussion on the idea of possible worlds. In the philosophy of mathematics he was a defender of nominalism.

**Sources:** J. J. Jadacki, (1986) 'L. Chwistek–B. Russell: scientific correspondence', *DH* 13, 1: 239–63.

JACEK JULIUS JADACKI