

Dr. Evan S. Baltazzi  
825 Green Gate Oval  
Northfield, Ohio 44067

#### EDUCATION

University of Oxford, England, Doctor of Philosophy (Organic Reaction Mechanisms, IR Spectroscopy) 1954

University of Paris, France, Docteur ès Sciences Physiques, Grade d'Etat (U.V. Spectroscopy of Organic Molecules-Heterocycles), 1949

Has worked under Professor Jacques Tréfouël, Member of the French Academies of Sciences and Medicine, Nobel Prize winner and Professor sir Robert Robinson, F.R.S., Nobel Prize winner.

#### WORK HISTORY

Attaché de Recherches, French National Research Centre: 4 years

Chargé de Recherches, French National Research Centre: 6 years

Senior Group Leader, Organic and Polymer Synthesis, Nalco Chemical Co: 2 years

Manager Organic and Analytical Chemistry Section, IITRI: 2 years

Director Research Laboratory, A.M. International: 14 years

President Consulting Consortium, Evanel Associates: 1977 - to present

#### AWARDED HONORS AND OFFICES HELD

Captain, Oxford University Judo Team 1953-1954, Colors

British Council Fellow, 1952-1954; Fellow, the Chemical Society (1954)

NRC (Canada) Fellow, 1955-1956

New Citizen of the Year, 1964

Distinguished Service Award (Science) 1965

Chairman, Sports and Physical Education Methods Research Conferences, 1970-1971

Vice-President, American Institute of Chemists (Fellow) Chicago Chapter 1970-1971. Nominee and runner-up for President of the AIC, 1970

Chairman, AMA Research Management Seminar, 1970

Member Committee on Manpower Policy, ACS, 1973

Member of a 10-man Committee on U.S. Currency of the NAS/NRC, 1985-1986

Initiator and General Chairman, Summer Symposium on "Photoconductor Image Technology-Theory and Practice", sponsored by the S.P.S.E., Cleveland, 1974

Initiator and Chairman of the first Gordon Research Conference on the "Chemistry and Physics of Photoconductive Molecules", 1976

General Chairman of the 30th S.P.S.E. Annual Conference, North Hollywood, 1977

Senior member SPSE, 1980

Chairman International Committee of the SPSE 4th International Conference on Electrophotography - was instrumental in securing substantial foreign participation. Washington, D.C., 1981

Director, SPSE Cleveland Chapter, 1974-82; Electrophotography sessions chairman  
Contributing Editor and Reviewer, J. Imaging Technology, 1980--  
President, SPSE Cleveland Chapter, 1980-82

Member National AAU Judo Committee, 1966-1972

Chairman National YMCA Judo Committee, 1970-1972

Member U.S. Olympic Committee (Judo), 1966-1972

Judo Black Belt V (Godan) Aikido Black Belt V (Godan) Life Member U.S. Judo Association

President and Founder of the American Self-Protection Association, 1965 ---

#### PUBLICATIONS

- 1 "Sur l'absorption de certains hétérocycles de la série naphthalénique(I)", Comptes rendus, Vol. 230, p. 2207, 1950
- 2 "Sur l'absorption de certains hétérocycles de la série naphthalénique(II)", Comptes rendus, Vol. 231, p. 156, 1950
- 3 "Sur l'équilibre tautomérique des nitrosonaphtols", Comptes rendus, Vol. 232, p. 987, 1951
- 4 "Synthèse de certains hétérocycles de la série naphthalénique", Comptes rendus, Vol. 233, p. 691, 1951
- 5 "Antipodes optiques du mannose et du sorbose comme source de carbone pour diverses bactéries", Comptes rendus, Vol. 233, p. 1696, 1951
- 6 "Synthèse de dérivés  $\beta$ -ménaphtyliques à partir de la tétraline", Bulletin de la Société Chimique de France, p. 167, 1953
- 7 "Synthèse de certaines combinaisons hétérocycliques de la série du naphthalène", Bulletin de la Société Chimique de France, p. 792, 1952
- 8 "The Reduction of certain 2-Phenyl 4-Arylideneoxazolones by Means of

- LiAlH<sub>4</sub>", Chemistry and Industry, p. 541, 1953  
(with sir Robert Robinson)
- 9 "The Reduction of 2-Phenyl 4-Isopropylideneoxazolones by Means of LiAlH<sub>4</sub>", Chemistry and Industry, p. 368, 1953 (with sir Robert Robinson)
  - 10 "The Preparation of certain Azlactones", Chemistry and Industry, p. 191, 1954 (with sir Robert Robinson)
  - 11 "The Chemistry of 5-Oxazolones", Quarterly Reviews, Vol. IX, No. 2, 1955
  - 12 "Synthèse de la dl-cystine", Comptes rendus, Vol. 240, p. 208, 1955  
(with J. W. Davis)
  - 13 "A propos des deux formes géométriques de l'  $\alpha$ -phenylacetamino-b-pipéridinoacrylate d'éthyle", Comptes rendus, Vol. 240, p. 1711, 1955
  - 14 "A propos de l'action du diazoacétate d'éthyle sur le phénol", Comptes rendus, Vol. 241, p. 321, 1955
  - 15 "Hydrazides de la série phenoxyacétique et dérivés, Comptes rendus, Vol. 241 p. 663, 1955 (with R. Delavigne)
  - 16 "Uroporphyrin III", American Chemical Society Meeting at San Francisco, Spring, 1958, 87 N p. 148; The Journal of the American Chemical Society, Vol. 82, p. 4389, (with E.J. Tarlton and F.S. MacDonald)
  - 17 "A propos d'une réaction de McFadyen-Stevens modifiée dans la série du pyrrole", Comptes rendus, Vol. 254, p. 702, 1962
  - 18 "Remarques sur certaines réactions des ylidène-4-oxazolones-5, Comptes rendus, Vol. 254, p. 2375, 1962
  - 19 "A propos de certaines réactions des alcools benzoylamino-2-allyliques", Comptes rendus, Vol. 254, p. 2375, 1962
  - 20 "Cyclodehydrations with Complexes of Sulfur Trioxide. Synthesis of Azlactones", Chemistry and Industry, p. 929, 1962 (with E.A. Davis)
  - 21 "Cyclodehydrations with Complexes of Sulfur Trioxide. Synthesis of Butenolides", Chemistry and Industry, p. 1653, 1962 (with E.A. Davis)
  - 22 "Cyclodehydrations with Complexes of Sulfur Trioxide. Synthesis of 1,3,4-Oxadiazoles, Chemistry and Industry, p. 1080, 1963 (with A. W socki)
  - 23 "Substituted Phenoxyacetohydrazides as Reagents for Carbonyl Compounds", Comptes rendus, Vol. 256, p. 5159, 1963 (with J.W. Garner)
  - 24 "Organometals", Industrial Research, p. 40, March 1963
  - 25 "Recent Advances in the Chemistry of Pyrrole", Chemical Reviews, Vol. 63, p. 511, 1963 (with L.I. Krimen)
  - 26 "A Chemical Shorthand", Frontier, Vol. 24, p. 14, 1963

- 27 "Acrylic Polymers as Binders for Electrophotographic ZnO Coatings", Phot. Sc. and Eng. 16, No. 5, p. 354 (with R.G. Blanchette, and Ralph Minnis)
- 28 "Some Aspects of the Structure-Reactivity Relationship in Aromatic Diazo Compounds", (with E.E. Dailey, H. Printy, P. Data and W. Wagner) Phot. Sci. and Eng., Vol. 18, No 22, March/April 1974\*
- 29 "Benzocarbazole Polymers: A new Class of Organic Photoconductors Gordon Research Conferences, 1976, New Hampshire\*
- 30 "Novel Azlactones and Butenolides as Acceptors in Organic Photoreceptors", SPSE Symposium, Tokyo, Japan, 1977\*
- 31 "Cumulenes as Organic Photoconductive Pigments", IEEE/IAS Cleveland, 1979\*  
"A New Class of Pigmented Organic Photoreceptors", Chemistry and Industry, p. 34, 1981
- 32 Recent Developments in Electrophotographic Processes, Materials and Related Fields, J.A.P.E., Vol. 6, p. 147, 1980 (invited paper)
- 33 Recent Trends in Electrophotography and its Applications, id., Vol. 8, No. 5 p. 224, 1982 (invited paper)

\* Note. Has been active in the field of reprography since 1963. Due to the policies of his former employer, AM International, the majority of materials and processes developed by him or under his direction are unpublished; some are even unpatented. During his employment with AM he was consistently responsible for the following areas:  
EXPLORATORY RESEARCH. This included superfast diazos, novel alkaline complexes for thermal diazo development, new toners, new surface treatments for magnetic carriers, new organic photoconductors for homogeneous electrophotographic systems, (poly-vinylcarbazole and benzocarbazole families), new photoconductors for heterogeneous electrophotographic systems, (cumulene family), new optical sensitizers for zinc oxide coatings, new binders for electrofax and for the new systems he developed, new acceptors (sensitizers) for photoconductors of the donor-acceptor type, new evaluation methods for photoconductive polymer precursors, polymerization methods for new photoconductive monomers, liquid development methods creating simultaneously a positive and a negative image, new electrostatic imaging processes, and three machine prototypes: one for reflex copying, one table-top copier, and one copier-duplicator, all based on organic photoconductors.  
APPLIED RESEARCH. This effort was aimed at improving the understanding of existing supplies and processes in order to upgrade them. It included troubleshooting involving raw and manufactured supplies, evaluation of raw materials, and extensive internal consulting.

- 34 Update on Electrophotography and its Applications, J. Imag. Techn. Vol. 10 No. 1, p.11A-14A

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- 35 Outlook for the Copier Market in the U.S.A., J. Imag. Techn., Vol. 10, No. 2, p. 30A-32A, 1984
- 36 Technical Trends in Electrophotography and Related Fields, id., Vol.10, No. 6, P. 120A-123A, 1984
- 37 Electrophotography, ibid., Vol. 11, No. 5, p. 6A, 7A and 12A, 1985
- 38 Electrophotography and Hard Copy Generation in 1985, ibid., Vol. 12, No. 2 1986

#### PATENTS

28 US and foreign patents (list attached)

#### PRESENTATIONS, SEMINARS, LECTURES

Taught courses in Organic and Polymer Chemistry, gave numerous graduate seminars and talks on technical topics. Was interviewed several times on TV in Chicago and Cleveland

Is a contributing editor for Electrophotography, and on the review board of the Journal of Imaging Technology (till 12/31/89)

#### OTHER PUBLICATIONS

Published several articles on aspects of physical education and sports, mostly in the Journal of Physical Education. Also four books on related topics.

1. J. Phys. Ed., March-April 1968, p. 118
2. American Judoman, September-October 1969, p.10
3. J. Phys. Ed., March-April 1971, p. 89
4. id., January-February 1973, p. 47
5. ibid., July-August 1973, p. 137
6. Inside Kung-Fu, Vol. 4, No. 4, p. 28, June 1977
7. id., No. 5, p. 13, July 1977
8. ibid., No. 6, p.32, August 1977
9. Super Banzai (Italy), December 1981, p. 25
10. id., January 1982, p. 48
11. ibid., February 1982, p. 30
12. ibid., March 1982, p. 36

Books:

1. Basic American Self-Protection, Evanel Associates, 1972; second printing, 1976; third printing 1982; fourth printing 1987.
2. Kickboxing. A Safe Sport. A Deadly Defense, Chas. E. Tuttle (Vermont); second printing, 1981, third printing 1984
3. Stickfighting for Men and Women, Chas. E. Tuttle (Tokyo, Japan), 1983
4. Self-Protection Complete. The A.S.P. System, Evanel 1992.

## E. S. BALTAZZI

## LIST OF ISSUED PATENTS. (Others pending)

FILED	TITLE	PATENT NO.	ISSUED
Sep 26 1960	Microbiocidally Active Compositions	US 3,067,095	Dec 4 1962
Oct 24 1960	Resinous Herbicidal Compositions	US 3,343,941	Sep 26 1967
Jul 7 1961	Halogenation Process	US 3,173,946	Mar 16 1965
Aug 31 1961	Method for Producing Sulfonated Organic Products	US 3,174,998	Mar 23 1965
Dec 15 1965	Derivatives of Substituted Orthoamino Benzoic Acid and Method of Preparing the Same	US 3,463,639	Aug 26 1969
Oct 16 1967	Photoelectrostatic Copier (Organic Photoconductors)	US 3,598,580	Aug 10 1971
Feb 23 1968	Improved Organic Photoconductive Members	US 3,556,785	Jan 19 1971
Jun 5 1969	Improved Organic Photoconductive Members	US 3,752,668	Aug 14 1973
Apr 4 1969	New and Improved Electrophotographic Recording Element	US 3,658,518	Apr 25 1972
Jul 14 1969	Acrylate Terpolymer Resin Binder for Photoelectrostatic Members	US 3,672,889	Jun 27 1972
Jul 18 1970	Photoelectrostatic Copier (Organic Photoconductors)	US 3,646,866	Mar 7 1972
Jul 20 1970	o-Aminomethyl-p-Phenylendiamines and Diazonium Salts Thereof	US 3,743,509	Jul 3 1973
Sep 7 1971	Photoconductive Elements Employing N-Vinyl Carbazoles Having Fused Condensed Arenic Ring Structures	US 3,751,246	Aug 7 1973
May 30 1972	Improved Organic Photoconductive Material Comprising Poly (Vinyl-Moniodo Benzocarbazole)	US 3,764,316	Oct 9 1973
May 3 1976	Coated Carrier Particles for Use in Electrophotographic Process	US 4,055,684	Oct 25, 1977

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ISSUED FOREIGN PATENTS.

BELGIUM

752,122

748,412

728,778

CANADA

912,330

887,579

820,891

FRANCE

70.11437

69.04155

15.96622

GREAT BRITAIN

1,256,143

1,236,056

1,161,104

ITALY

855,458