

Résumé of:

Raymond Jonnard, Sc. D.  
2685 University Ave.  
New York 63, N.Y.  
Kingsbridge 3-2704

February, 1946.

### P E R S O N A L I A

Born on 1/27/1913, 33 years of age. American citizen. One child and one other dependent.

### E D U C A T I O N

Graduate of the University of Paris.

Major: In General Chemistry, Biological Chemistry, Physiology.

Minor: In Botany, Physical-Chemistry, Physics.

Doctorate of Science: Obtained in 1937, with the mention:  
"Very Honorable".

(The thesis dealt with a study of some chemical and physical properties of the blood proteins).

### D I S T I N C T I O N S & M E M B E R S H I P S

Winner of the David Weill award in Chemistry, in 1937.

Winner of the Gold Medal of the Government for "chemical research and chemical engineering achievement (Paris World's Fair, 1937). (The work dealt with improvements to instruments for the study of the optical properties of fluids).

Member, American Chemical Society,  
American Society for X-Ray and Electron Diffraction,  
The Instrument Society of America. New York section.  
American Association for the Advancement of Sciences.

Registered in: American Men of Science (edition 1944).

### P U B L I C A T I O N S

The list of the <sup>60</sup>most important publications of the writer is attached. Most of them are still available in reprint form. Also available are the Press Reports dealing with some of the recentest works (N.Y. Journal & American, 1943, 1944 and 1945, Drug Trade News, 1943, 1944 and 1945, Southern Dairy Journal, 1945, etc...).

cont.....

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### E X P E R I E N C E

- 1932 to 1933: Assistant, Laboratory of Human Physiology, University of Paris, School of Medicine.  
(carried out research on the physiology of the nervous system, and the chemistry of various sympathicolytic and sympathicomimetic drugs).
- 1932 to 1938: Assistant-Professor, University of Paris (Sorbonne).  
(Teaching of general biology and biological chemistry to pre-medical school students).
- 1933 to 1937: Part-time Assistant, Laboratory of Industrial Hygiene, Department of Commerce (France). In this connection, considerable practical engineering experience was acquired, as well as a knowledge of Patent laws and procedure.
- 1935: Consultant for "Rousselle Laboratories" (Paris), for work on the chemistry of blood proteins.
- 1937: Consultant for "Roche-Organon" (Paris), for research on biological testing methods for the hormones.
- 1937: Consultant physical-chemist for "Lederle Laboratories" (Pearl River, N.Y.) for work on immune serum and vaccines.
- 1938 to 1939: Physical-Chemist, department of Chemistry, Fordham University, New York, N.Y. (Teaching).
- 1939 to 1946 (to-date): Employed at the "Warner Institute for Therapeutic Research, New York, N.Y. - first as Head of the Department of Physical Chemistry. The duties involved adapting and developing physical research and control methods for the manufactured products (drugs and cosmetics). Later, placed in charge of the chemical development laboratory. In this capacity, the work included coordinating the activities of several other departments, securing and assembling data for the prosecution of patents, planing the development work, analysing the results obtained in the pilot plant, setting specifications and testing the control methods for the new products. Valuable experience was thus acquired in the fields of: sugar chemistry, glycosides, (cardio-active), plant alkaloids, synthetic alkaloids, high pressure reactions and equipment design, pilot plant operation and equipment design, protein chemistry and derived production methods, amino-acids chemistry, vitamins testing, and pharmaceutical products analysis.
- 1946 to date: Lecturer, Dept. of Chemistry, Hunter College of the City of NY.

## BIOLOGICAL CHEMISTRY

- Jonnard, R., and Thompson, M.R.: Electrophoretic separation of the blood pressure active principles of hog kidney extracts. J. Am. Pharm. Ass. Sc. ed. 31, 19-24, (1942).
- Jonnard, R., and Thompson, M.R.: The nature of the pressor and depressor factors derived from kidney.  
( Presented before the Scientific section of the Am. Pharm. Ass., at the Denver meeting, 1942).  
J. Am. Pharm. Ass. Sc. ed. 32 , 260-78 , (1943), 18 fig., 8 tables , 17 electrocardiograms, 99 ref.
- Jonnard, R.; The enzymatic oxidation of the blood pressure active factors from kidney.  
( Presented before the Division of Biological Chemistry of the Am. Chem. Soc., Buffalo meeting, sept. 1942).
- Jonnard, R.: Oxirenin.  
Dictionary of Biochemistry ( W.M. Malissoff, ed.).  
Philosophical Library, New York, N.Y., (1943).  
(analyzed in : N.Y. Journal-American, Sept. 16, 1942).
- Jonnard, R., Design of large-size laboratory extraction apparatus.  
( Presented before the Division of Industrial & Engineering Chemistry of the Am. Chem. Soc., Detroit meeting, april 1943).  
Ind. & Eng. Chem. anal. ed., 16 , 61 , (1944), 1 fig.
- Jonnard, R.: Improved colorimetric method for the determination of Tryptophane in protein hydrolyzates.  
( Presented before the Division of Biological Chemistry of the Am. Chem. Soc., Pittsburgh meeting, Sept. 1943, 10 tables, 12 fig. , 99 ref.)  
( analyzed in : N.Y. Journal-American, Sept. 11, 1943,  
Manufacturing News, Sept. 27, 1943  
South Dairy JI., January 1944).
- Jonnard, R.: Improved method and apparatus for the determination of total Nitrogen in proteins and their hydrolyzates.  
( Presented before the Division of Biological Chemistry of the Am. Chem. Soc., New York meeting, Sept. 1944).  
Ind. & Eng. Chem. anal. ed., 17 , 246-9 , (1945).  
( analyzed in Manufacturing News, June 18, 1945).
- Jonnard, R.: A new nitroprusside-sulfite color reaction for cystine cysteine, aldehydes, ketones, and the sugars.  
J. Am. Pharm. Ass. Sc. ed. 34 , 293-5 , (1945).
- Jonnard, R.: A new color reaction of combined bisulfite and thiols.  
( Sur une nouvelle reaction coloree du bisulfite combine et des thiols).  
C.R. Ac. des Sc. 223 , 87-9 , (1946).
- Jonnard, R.: Contribution to the chemistry of titanous salts.  
Chimie & Industrie ( in printing ), (1947).

- Jonnard, R.: Histochemical Research on Polyphenols.  
( Recherches histophysiological sur les polyphenols).  
Jl. de Physiol. & Pathol. Gen. : 32 , 732-44, (1934).  
32 ; 1107-14, (1934).  
33 , 97-104, (1935).  
33 , 533-43, (1935).
- Jonnard, R., and Millot, J.: On the presence of free phenols in the blood of Spiders.  
( Sur la presence de corps à fonction phenolique libre dans le sang des araignees).  
C.R. Ac. des Sc. : 197 , 1002-3 , (1933).
- Jonnard, R.: Histochemical investigation of injected polyphenols.  
( Recherches histochimiques sur les polyphenols injectes)  
C.R. Soc. de Biol. 114 , 800-2 , (1933).
- Jonnard, R. : Chronic intoxication produced by some nitro-compounds  
C.R. Soc. de Biol. 114 , 1000-1 , (1933).
- Jonnard, R.: The magnetic susceptibility of blood serum.  
( La susceptibilite magnetique du serum sanguin).  
C.R. Ac. des Sc. : 204 , 1220-21 , (1937).
- Jonnard, R., and Ruskin, S.: Studies in Calcium metabolism.  
Am. Jl. Digestive Diseases , 5 (1938).
- Jonnard, R. and Ruskin, S.: Comparative physical chemical studies on calcium gluconate, calcium ascorbate, and ascorbic acid.  
C.R. Soc. de Biol. 128 , 266-8 , (1938).
- Jonnard, R.: The analysis of heavy-compounds by interferential refractometry.  
( Essay d'analyse des composes biologiques lourds par refractometrie interferentielle).  
Bull. Soc. de Chim. biol. de Paris: 21 , 1185-93, (1939).

Jonnard, R.  
Interferential Refractometry and Structure of Serum  
(1 vol. Maloine, ed. Paris (1937), 154p. 26 fig.)

Jonnard, R.  
The Cardio-active Digitalis glycosides  
Dictionary of Biochemistry (W.M. Malisoff, ed.), p.179-95.  
The Philosophical Library , New York, N.Y. (1943).

MISCELLANEOUS PUBLICATIONS

- Jonnard, R. An exceedingly rare abnormality in "Hirudo officinalis"  
( Sur une rare anomalie chez "Hirudo officinalis" );  
Bull. soc. Zool. de Fr. 58 , 316-18, (1933), 1 fig.
- Jonnard, R.: Interferential refractometry of cancerous blood serum.  
( Refractometrie interferentielle du serum  
de cancreux ).  
Bull. Soc. de Chim. biol. de Paris, 19, 893-7, (1937).
- Jonnard, R.: Physical-Chemical characterization of blood sera.  
( Individualidad fisicoquimica de los constituyentes  
del suero sanguineo ).  
Bol. Inst. de Med. Exp. Buenos-Aires,  
43 , 529-36 , (1937).
- Jonnard, R.: Physical-Chemical investigations upon cancerous  
blood sera.  
( Investigaciones fisico-quimicas sobre el suero  
de cancerosos ).  
Bol. Inst. de Med. Exp. Buenos-Aires,  
44 , 141-58 , (1937).

Jonnard , R.  
( Sc. D. )

OUTLINES OF COLLEGE  
CHEMISTRY

LL  
A course in Fundamental Chemistry ( Advanced  
inorganic Chemistry ), delivered at :  
The Hunter College of the City of New York,  
New York City , N.Y. , during the years: 1946-1947  
(

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## PHYSIOLOGY OF VISION

- Jonnard, R., and Faillie, R.: New apparatus for measuring psychomotor reaction velocities.  
( Nouveau dispositif pour la mesure des temps de reaction psychomotrices ).  
Le Travail Humain , 1 , 3-7 , (1933).
- Jonnard, R., and Maire, L.: Influence of common substances on psychomotor reactions elicited by auditive signals.  
( Influence de quelques substances usuelles sur les temps de reaction visuels a signal auditif ).  
Paris Medical, Oct. 7, (1933), p. 1-6.
- Jonnard, R., Escher-Desrivieres, J., and Faillie, R.: Influence of glare upon the visual psychomotor reaction velocity.  
( Reactions psychomotrice visuelles en relation avec l'eblouissement par projecteur d'automobile ).  
C.R. Ac. des Sc. : 197, 199, (1933).
- Jonnard, R., Faillie, R., and Escher-Desrivieres, J.: Relationship between visual psychomotor reaction velocity and the illumination of the eyes.  
( Reaction psychomotrice visuelles consecutives a une illumination intense de l'oeil ).  
C.R. Ac. des Sc. : 198 , 1325 , (1934).
- Jonnard, R., Faillie, R., and Vial-de-Sachy, H.: Variation of the pupillary constriction with level of illumination.  
( Variation de la constriction pupillaire avec le niveau d'eclairage ).  
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- Jonnard, R. : Practical realization of subjective color synthesis.  
( Realisation pratique de la synthese des couleurs ).  
Lect. Comm. Intern. de l'Eclairage, Dec. 12, (1934).
- Jonnard, R., and Escher-Desrivieres, J.: Investigation of the duration of the so-called "consecutive images".  
( Etude sur la duree des images dites accidentelles ).  
C.R. Soc. de Biol. : 120, 681-3 , (1935).
- Jonnard, R.: Practical color photometry.  
Instruments : 17 , 463-4 , (1944), 1 fig.

Jonnard, R., and Escher-Desrivieres, J.

### L'EBLOUISSEMENT

( Study on Glare )

1 vol. Hermann & Co, ed. Paris 1937 .

## I M M U N O L O G Y

- Jonnard, R.: An interferential refractometer for biological studies.  
Rev. d'Optique , Dec. 1936 p. 425-30
- Jonnard, R. Presentation of an interferential refractometer.  
( Presentation d'un refractometre interferential ).  
C.R. Soc. de Biol. , 122 , 396-8, (1936).
- Jonnard, R. Study of the refraction of blood serum in the presence  
of foreign substances.  
C.R. Soc. de Biol. 122 , 1305-6 , (1936).
- Jonnard, R., and Zuckerkandl, F.: Study of the refraction of blood  
serum in the presence of electrolytes.  
C.R. Soc. de Biol. 122 , 1315-16 , (1936).
- Jonnard, R.: Study of the refraction of blood serum vs. concentration  
C.R. ~~Soc. de Biol.~~ Ac. des Sc. 203 , 124, (1936).
- Jonnard, R.: Study on the stability of blood serum.  
C.R. Soc. de Biol. 121 , 841-3 , (1936).
- Jonnard, R., Faillie, R. and Zuckerkandl, F.: Study on the reac-  
tivity of blood serum.  
Biol. Med. 28 , 1-23 , (1938), 10 tables.
- Jonnard, R.: Physical interpretation of the methods of sero-dia-  
gnosis by interferential refractometry.  
Rev. de Pathol. Comp. & Hygiene gen. 483 , 1-7 , (1936).
- Jonnard, R. The titration of antigens and antibodies by interfe-  
rential refractometry.  
C.R. Soc. de Biol. , 127 , 418-21 , (1938).
- Jonnard, R.: The titration of anti-scarlet fever immune serum by  
interferential refractometry.  
C.R. Soc. de Biol. , 128 , 263-5 , (1938).
- Jonnard, R.: The titration of the immune sera and bacteriological  
antigens by interferential refractometry.  
( La titration des immune sera et des antigenes micro-  
biens par refractometrie interferentielle. )  
Biol. Med. 28 , 469-512 , (1938), 28 tables, 69 ref.