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U. S. ARMY MATERIEL COMMAND

May 1963

Natick, Massachusetts

Technical Report

QMRE 27

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PUBLICATIONS AND TECHNICAL PAPERS FOR 1962

Quartermaster Research & Engineering Center

U. S. Army Materiel Command

May 1963

Natick, Massachusetts

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172. WHARTON, D. R. A., E. D. BLACK, C. MERRITT, JR., M. L. WHARTON, M. BAZINET, and J. T. WALSH Isolation of the sex attractant of the American cockroach. Science 137: 1062 (28 September)
173. \_\_\_\_\_ and M. WHARTON Effect of  $\beta$ -mercaptoethylamine (MEA) on the radiosensitivity of the male cockroach Periplaneta americana (L.). Radiation Research 16(5): 723 (May)

Technical Papers

174. COTTON, E. S. Solar energy. Science Education Seminars, Bridgewater Regional High School, June; Boxford-Topsfield Regional High School, June. Sponsored by Massachusetts Department of Commerce and Department of Education
175. \_\_\_\_\_ Solar furnace. Physics Club, Lowell Technological Institute, Lowell, Mass., December
176. \_\_\_\_\_ Thermal image description and measurement. Conference on Imaging Techniques. Arthur D. Little, Inc., Acorn Park, Cambridge, Mass., October
177. DEGERING, E. F. Irradiation "factor-dependency." Exploratory studies and irradiation-induced polymerization of styrene. Second International Congress of Radiation Research, Harrogate, England, August. (Paper read by Dr. A. Charlesby.)
178. \_\_\_\_\_ Irradiation "factor-dependency." Seminar to discuss present status of the modification of textile materials by means of high energy radiation. School of Textiles, North Carolina State College, Raleigh, December

PIONEERING RESEARCH DIVISION

Technical Papers (cont.)

179. DEGERING, E. F. Parameters. Atlantic Union College, South Lancaster, Mass., November
180. \_\_\_\_\_ S. R. BUTLER, G. J. CALDARELLA, F. E. EVANS, S. D. GABELNICK, and M. MANCINI Irradiation "factor-dependency" of vinyl monomers: effects of some experimental variables. International Symposium on Radiation-induced Polymerization and Graft Polymerization, Battelle Memorial Institute, Columbus, Ohio, November. (TID-7643, Division of Technical Information, U. S. Atomic Energy Commission)
181. \_\_\_\_\_ G. J. CALDARELLA, F. E. EVANS, and S. GRIB Irradiation "factor-dependency": III. Some vinyl monomers, irradiation cycle. American Chemical Society, Washington, March
182. \_\_\_\_\_ G. J. CALDARELLA, F. E. EVANS, and S. GRIB Irradiation "factor-dependency": IV. Some vinyl monomers: degassing and other variables. American Chemical Society, Washington, March
183. ENOS, H. F., JR. Thin-layer chromatography - a modification. Chemistry Seminar, Boston College, Chestnut Hill, Mass., November
184. HASSELSTROM, T., S. D. BAILEY, and E. T. REESE Regeneration of food flavors through enzymatic action. Army Science Conference, West Point, N. Y., June
185. HEINMETS, F. Enzyme synthesis and its regulation. Indiana University Medical Center, Indianapolis, May
186. \_\_\_\_\_ Theoretical analysis of models for enzyme synthesis by the use of computers. Institute of Molecular Biophysics and Department of Chemistry, University of Florida, Tallahassee, February
187. \_\_\_\_\_ Theoretical analysis of model systems for the induced enzyme synthesis. Department of Biology, Massachusetts Institute of Technology, Cambridge, April
188. HENRY, M. C., and W. DAVIDSON New considerations of organo-germanium chemistry. Organo-metallic Conference, University of British Columbia, Vancouver, September
189. \_\_\_\_\_ J. G. NOLTES, W. DAVIDSON, and A. KREBS Organo-metallic research using group IV elements. Army Science Conference, West Point, N. Y., June
190. HYATT, M. T., and H. S. LEVINSON Conditions affecting Bacillus megaterium spore germination in glucose or in various nitrogenous compounds. American Society for Microbiology, Kansas City, Mo., May

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Technical Papers (cont.)

191. KOBRICK, J. L. Effects of exposure to wind and low temperature on photopic and scotopic visual acuity. Eastern Psychological Association, Atlantic City, April
192. KORTUM, G., M. KORTUM-SEILER, and S. D. BAILEY Optical properties of the 2-(2',4'dinitrobenzyl) pyridine in the adsorbed state. ARO (Durham) Symposium on Reversible Photochemical Processes, Durham, N. C., April (Proceedings, Preprints of Papers, p. 83)
193. KRONMAN, M. J., L. HOLMES, and R. ANDREOTTI Aggregation reactions of alpha lactalbumin. American Chemical Society, Atlantic City, September
194. LEVINSON, H. S. Bacterial spore germination with special reference to B. megaterium. Conference on Endogenous Metabolism of Bacteria, New York Academy of Sciences, New York City, September
195. \_\_\_\_\_ The concept of "ionic germination" of bacterial spores. Eleventh Conference on Prevention of Microbiological Deterioration of Military Materiel. U. S. Army Natick Laboratories, Natick, November
196. \_\_\_\_\_ Effect of ionizing radiation on B. megaterium spore germination. Department of Biology, University of Pittsburgh, Pittsburgh
197. \_\_\_\_\_ and M. T. HYATT Nitrogenous compounds in germination and post-germinative development of Bacillus megaterium spores. American Society for Microbiology, Kansas City, Mo., May
198. LONG, L., JR., D. H. BALL, and A. K. MITRA A novel carbohydrate reaction. Army Science Conference, West Point, N. Y., June
199. MANDELS, G. R. Endogenous respiration of fungus spores in relation to dormancy and germination. Conference on Endogenous Metabolism of Bacteria, New York Academy of Sciences, New York City, September
200. MANDELS, M., and E. T. REESE Inhibition of cellulases and  $\beta$ -glucosidases. American Chemical Society, Washington, March
201. MCGINNIS, J. M. Typical human factors problems found during cold weather tests of Army equipment. Applied Science Colloquium, Tufts University, Medford, Mass., March
202. MENDELSON, J. M., M. A. STEINBERG, and C. MERRITT, JR. Gas chromatographic separations of volatile components from haddock (Melanogrammus Aeglefinus) flesh. Twenty-second Meeting of the Institute of Food Technologists, Miami, June

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Technical Papers (cont.)

203. MERRITT, C., JR. Application of mass spectrometry and gas chromatography to flavor analysis. Department of Food Technology, University of Massachusetts, Amherst, May
204. \_\_\_\_\_ Time-of-flight mass spectrometry with a gas chromatographic inlet system. Fourth Annual Bendix Time-of-Flight Mass Spectrometer School, Cincinnati, October
205. \_\_\_\_\_ and J. M. MENDELSON Flavor in fish. American Chemical Society, Atlantic City, September
206. PILSWORTH, M. N., JR. Tensile impact on rubber and nylon. American Physical Society, Baltimore, March (Bull. Amer. Phys. Soc., 7: 241); and Army Conference on Dynamic Behavior of Materials and Structures, Springfield, Mass., September
207. PRATT, J. J., JR. New vistas in military entomology. Florida Entomological Conference, University of Florida, Gainesville, February; and Fernald Club, University of Massachusetts, Amherst, April
208. REESE, E. T., and M. MANDELS Enzymatic hydrolysis of  $\beta$ -glucans. American Chemical Society, Washington, March
209. ROTH, L. M. Receptivity in females of *Nauphoeta cinerea*. Entomological Society of America, Phoenix, Arizona, December
210. SAPPERS, G. Investigation of the biosynthesis of the volatile components of onions. 1001st Army Research and Development Reserve Group at Massachusetts Institute of Technology, Cambridge, May
211. SIMMONS, E. G. Fungus cultures: conservation and taxonomic responsibility. Specialists Conference on Culture Collections. National Research Council (Canada), Ottawa, August
212. SUSICH, G. Structural changes in nylon body armor fabrics due to impact. Thirteenth Defense Conference on Non-Destructive Testing, Concord, California, September
213. WETTERMARK, G. Flash photolysis. Seminar, Northeastern University, Boston, December
214. WHARTON, D. R. A. The sex attractant of the American cockroach. American Chemical Society, Atlantic City, September

TECHNICAL SERVICES DIVISION

Technical Papers

215. KENYON, E. M. QMC program for the calibration of measuring and testing instruments. U. S. Army Calibration Conference, Fort Monmouth, N. J., 20-22 March

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Reports

216. Adaptability of shear presses to specifying tenderness of cooked, sliced, freeze-dried beef, by J. M. TUOMY and R. G. YOUNG. AMXFC Report 39-62, December
217. Contour packaging of field clothing items, by G. L. SCHULZ. QMFCLAF Report 18-62, June
218. Design of load configurations for the M-4A high speed aerial delivery container XI. Load configurations for individual combat meals, training grenades (inert), and carbines and ammunition, by A. S. YOUNG and E. H. SCHEMBOR. QMFCLAF Report 8-62, March
219. Design of load configurations for the M-4A high speed aerial delivery container XII. Load configurations for practice hand grenades and 30-caliber Browning machine guns with associated ammunition, by E. J. PULO. AMXFC Report 36-62, October
220. Effect of dehydration variables on the quality of freeze-dried cooked sliced beef, by J. M. TUOMY, R. J. LECHNIR, and T. MILLER. QMFCLAF Report 14-62, June
221. Effect of temperature on the tenderness of cooked beef, by J. M. TUOMY, R. J. LECHNIR, and T. MILLER. QMFCLAF Report 28-62, August
222. Food attitudes in an unusual environment: a second study, by D. R. PERYAM. QMFCLAF Report 2-62, March
223. Food consumption and preferences under conditions of restricted and non-restricted feeding, by D. R. PERYAM and R. W. SEATON. AMXFC Report 40-62, December
224. Food preferences in a stressful situation, by J. M. KAMEN. QMFCLAF Report 31-62, August
225. Hunger in groups: an arctic experiment, by R. W. SEATON. QMFCLAF Report 34-62, August
226. The influence of diet on volume and major molecular composition of gastrointestinal gas in rats, by L. A. WHITEHAIR and K. K. MATSUMURA. AMXFC Report 38-62, November
227. Isolation and partial characterization of a factor from acid hydrolyzed glucose which has vitamin B<sub>6</sub> activity in the yeast assay procedure, by P. A. HEDIN and W. K. CALHOUN. QMFCLAF Report 9-62, March

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Reports (cont.)

228. The length and direction of rating scales, by R. W. SEATON. QMFCIAF Report 11-62, June
229. Methods of shaping soldiers' attitudes toward quick-serve meals, by J. M. KAMEN. AMXFC Report 41-62, December
230. Modified microbiological procedures for vitamin assays: a manual, by M. H. THOMAS. QMFCIAF Report 19-62, July
231. The nutrient composition of the meal, combat, individual, by M. H. THOMAS. QMFCIAF Report 12-62, June
232. Oxygen uptake, heart rate, and body temperature during work in man, dog, and swine, by D. R. YOUNG and R. PRICE. QMFCIAF Report 3-62, March
233. A questionnaire study of army mess personnel, by J. EINDHOVEN. AMXFC Report 37-62, November

Library Bulletin Series

234. List of periodicals currently received in the library branch of the institute, compiled by W. L. NECKER and E. WYNN. QMFCIAF Library Bulletin 7, September 1961

Journal Articles

235. ANELLIS, A. Radioresistance of a pseudomonas species isolated from the omega west reactor. Radiation Research 15: 6 (December 1961)
236. \_\_\_\_\_ and R. B. KOCH Comparative resistance of strains of Cl. botulinum to gamma rays. J. Appl. Microbiol. 10: 326
237. \_\_\_\_\_ and R. B. KOCH Comparative resistance of strains of Cl. botulinum types A and B, and P.A. 3679 to gamma rays. (Abstract) Bacteriol. Proc. A43: 30
238. BYRNE, A. F., and R. B. KOCH Food production by submerged culture of plant tissue cells. Science 135: 215 (January)
239. CALLOWAY, D. H., R. HILF, and A. H. MUNSON Effects of chronic food restriction in swine. J. Nutrition 76: 365 (April)

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Journal Articles (cont.)

240. CALLOWAY, D. H., and R. B. POTTS Comparison of atherosclerosis in swine fed a human diet or purified diets. Circulation Research 11: 47 (July)
241. GORESLINE, H. E. Role of sanitation in dehydrated foods. J. Milk and Food Technol. 25: 11 (January)
242. GRECZ, N., A. ANELLIS, and M. D. SCHNEIDER Procedure for cleaning Cl. botulinum spores. J. Bacteriol. 84: 552 (September)
243. HEDIN, P. A. Gastrointestinal gas production in rats as influenced by some animal and vegetable diets, sulfiting, and antibiotic supplementation. J. Nutrition 77: 471 (August)
244. \_\_\_\_\_ and R. R. ADACHI Effect of diet and time of feeding on gastrointestinal gas production in rats. J. Nutrition 77: 229 (July)
245. HOLLENDER, H. A. New horizons in nutrition through food technology. Illinois Med. J. (November)
246. KAMEN, J. M. Decision-making by users of food acceptance data. Food Technol. 16: 48 (January)
247. \_\_\_\_\_ Reasons for non-consumption of food in the army. J. Am. Dietetic Assoc. 41: 437 (November)
248. LEE, F. H. Dehydrated foods: military experiments foreshadow future hospital uses. Hospitals 35: 77 (December 1961)
249. MEHRLICH, F. P. Accelerating food irradiation breakthroughs. Food Processing 46: 44 (June)
250. MOLAISSON, L. J., and J. J. SPADARO, Southern Regional Research Laboratory, U. S. Dept. of Agriculture; M. T. ROBY, and F. H. LEE Dehydrated diced sweetpotatoes -- a pilot-plant process and product evaluation. Food Technol. 16: 101 (November)
251. SCHNEIDER, M. D., N. GRECZ, and A. ANELLIS Sporulation of Cl. botulinum types A, B, and E, Cl. perfringens and P.A. 3679 in dialysis sacs. (Abstract) Bacteriol. Proc. A39: 29
252. SIDWELL, C. G., H. SALWIN, M. DRIVER, and R. B. KOCH Spectral examination of cured-meat pigments during frankfurter processing. J. Food Sci. 27: 9 (January-February)

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Journal Articles (cont.)

253. SIDWELL, C. G., H. SALWIN, and R. B. KOCH The molecular oxygen content of dehydrated foods. J. Food Sci. 27: 255 (May-June)
254. YOUNG, D. R. Performance in relationship to food energy intake. Activities Report, R&D Associates, Food & Container Institute, Inc., 13: 146 (1961)
255. \_\_\_\_\_ R. PRICE, N. E. ELDER, and R. R. ADACHI Energy and electrolyte metabolism and adrenal responses during work in dogs. J. Appl. Physiol. 17: 669 (July)

Technical Papers

256. ANELLIS, A. Comparative resistance of strains of Cl. botulinum types A and B, and P. A. 3679 to gamma rays. American Society of Microbiologists, Kansas City, Mo., 9 May
257. \_\_\_\_\_ Destruction of food spoilage bacteria by ionizing radiation. Armour Research Foundation, Society of Industrial Microbiology, Chicago, 16 April
258. BISHOV, S. J. Oxidation of fat in model systems related to freeze-dried foods. III. The influence of non-lipid animal tissue components. Institute of Food Technologists Annual Meeting, Miami Beach, 10 June
259. BROCKMANN, M. C. Freeze-dehydration of poultry meat. Poultry Products Training School, Institute of American Poultry Industries, Chicago, 9 January and 6 March
260. \_\_\_\_\_ Freeze-dried foods - the viewpoint of the consumer. American Society of Mechanical Engineers, New York City, 29 November
261. \_\_\_\_\_ Recent developments in freeze-drying of foods. Department of Food Science Seminar, Michigan State University, East Lansing, Mich., 30 April
262. BYRNE, A. F. Food production by submerged culture of plant tissue cells. Research and Development Associates Military-Industry Conference, Chicago, 25 October
263. CALHOUN, W. K. Role of nutrition in new product development. Tenth Annual Food Technology Short Course, University of Missouri, Columbia, Mo., 10 March

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Technical Papers (cont.)

264. CALHOUN, W. K. Trace elements in foods as determined by activation analysis. Fourteenth Research Conference, American Meat Institute Foundation, Chicago, 23 March
265. COSLER, H. B. Candy. Quartermaster Subsistence School, Fort Lee, Va., 16 August
266. \_\_\_\_\_ Candy for use in the armed forces. Quartermaster Subsistence School, Fort Lee, Va., 5 April
267. \_\_\_\_\_ Current thinking on confections for military and civil defense rations. National Confectioners Association and American Association of Candy Technologists, Chicago, 6 June
268. DILLON, J. The importance of military packaging. Western Springs Rotary Club, Hinsdale, Ill., 10 April
269. \_\_\_\_\_ Military transportation hazards. Purdue University, Lafayette, Ind., 19 March
270. DRAKE, B. K. Analysis of mastication sounds. Institute of Food Technologists Annual Meeting, Miami Beach, 10-14 June
271. EINDHOVEN, J. Last but also least. Institute of Food Technologists Annual Meeting, Miami Beach, 10-14 June
272. \_\_\_\_\_ Shaping foods to the user's preferences. Annual Meeting of the Human Factors Society, New York City, 29 November
273. FRITZSCHE, H. W. New methods in vegetable preservation. 54th Annual Convention, Vegetable Growers Association of America, Indianapolis, Ind., 26 November
274. \_\_\_\_\_ Observation on 18 months' tour of freeze-dehydration industry in Europe. Industry Day, QM R&E Center, Natick, 18 May
275. \_\_\_\_\_ Observations on Secretary of the Army research and study fellowship of dehydration in Europe. Chicago Section, Institute of Food Technologists, Chicago, 14 May
276. GORESLINE, H. E. A discussion of the microbiology of various dehydrated foods and the need for further research. Conference on Microbiological Quality of Foods, Franconia, N. H., 27-29 August
277. \_\_\_\_\_ Food stockage in fallout shelters. Research and Development Associates 16th Annual Meeting, Chicago, 24-26 April

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278. GORESLINE, H. E. Freeze-dehydrated foods. Indiana Section, Institute of Food Technologists, Lafayette, Ind., 9 March
279. \_\_\_\_\_ Freeze-drying as a method of food preservation. Missouri Association of Milk and Food Sanitarians, Columbia, Mo., 3 April
280. \_\_\_\_\_ How micro-organisms affect food quality. Klenzade 23rd Educational Seminar, Chicago, 28-30 March
281. \_\_\_\_\_ Microbiological specifications for certain frozen foods used by the military. International Association of Microbiological Societies, Montreal, Canada, 16-18 August
282. \_\_\_\_\_ The need for long-term storage of military rations. American Society of Heating, Refrigerating, and Air Conditioning Engineers, St. Louis, Mo., 1 February
283. \_\_\_\_\_ New ways of processing food and the role of sanitation. Eleventh Annual Pennsylvania Health Conference, State College, Pa., 22 August
284. \_\_\_\_\_ Preservation by traditional and inhibitory substances. First International Congress of Food Science and Technology, London, England, 18-21 September
285. GRECZ, N. Cleaning of bacterial spores for chemical studies of the mode of action of ionizing radiation. Armour Research Foundation, Society of Industrial Microbiology, Chicago, 16 April
286. \_\_\_\_\_ Procedure for cleaning of spores of Cl. botulinum. American Society of Microbiologists, Kansas City, Mo., 9 May
287. \_\_\_\_\_ Radiation preservation of food. U. S. Army Medical Service Veterinary School, Chicago, 29 October
288. GRUNDY, A. V. Evaluation of exhibits (discussion). Fibre Box Association, Chicago, 1-4 May
289. \_\_\_\_\_ Flexible film packaging. Sixth Joint Industry-Military Symposium on Packaging and Materials Handling, Washington, 27 February
290. HAMMAN, J. W., and J. EINDHOVEN Effectiveness of certain experimental plans utilized in sensory evaluations. Walter Reed Army Institute for Research, Washington, 25 October
291. HEILIGMAN, F. Radiation preservation of food. Food Technology Seminar, University of Wisconsin, Madison, 8 March; Quartermaster Subsistence School, Fort Lee, Va., 7 June

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Technical Papers (cont.)

292. HENICK, A. S. Lipids. Gordon Research Conference on Basic Chemistry of Aging, Tilton, N. H., 11 June
293. \_\_\_\_\_ and G. E. TRIPP Long-term storage of military rations. Institute of Food Technologists Annual Meeting, Miami Beach, 10-14 June
294. HOLLENDER, H. A. Freeze-dehydrated foods. Institute of Food Technologists (Indiana Section), Lafayette, Ind., 9 March
295. \_\_\_\_\_ Military convenience foods with a civilian potential. Houston Restaurant Association, Houston, Texas, 20 November
296. \_\_\_\_\_ New horizons in nutrition through food technology. Symposium on Nutrition and Food Technology, Institute of Food Technologists, Chicago, 26 September
297. HUBER, D. A. Radiation preservation of food. U. S. Army Medical Service Veterinary School, Chicago, 12 December
298. JENSEN, R. J. Identification of volatile flavor components in foods. 13th Annual Mid-American Spectroscopy Symposium, Chicago, 3 May
299. JOHNSON, K. R. Dehydrated fruits and vegetables. Quartermaster Subsistence School, Fort Lee, Va., 6 December
300. JOKAY, L. Freeze-dried scrambled eggs. Institute of American Poultry Industries, Chicago, 11 December
301. KAMEN, J. M., and J. EINDHOVEN Comparison of rating methods in investigations of complex suprathreshold taste stimuli. American Psychological Association, St. Louis, Mo., 3 September
302. \_\_\_\_\_ and J. EINDHOVEN Instructional sets affecting preference differences among familiar and unfamiliar foods. American Psychological Association, St. Louis, Mo., 3 September
303. KLICKA, M. V. Characteristics of future rations. Medical Education for National Defense Symposium, U. S. Army Medical Research and Nutrition Laboratory, Fitzsimons General Hospital, Denver, Colo., 15 May
304. \_\_\_\_\_ Development of canned military rations. U. S. Army Medical Service Veterinary School, Chicago, 6 April
305. \_\_\_\_\_ Military rations. U. S. Army Medical Service Veterinary School, Chicago, 18 June

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306. KLICKA, M. V. New operational rations. Dehydrated Foods Orientation Course for Inspectors, AFFCI, Chicago, 5 April; Advanced Quartermaster Class, QM R&E Center, Natick, 17 April
307. \_\_\_\_\_ Operational rations development and rations of other nations. Quartermaster Subsistence School, Fort Lee, Va., 6 June
308. LEE, F. H. Menu planning in 1980. Research and Development Associates Military-Industry Conference, Chicago, 25 October
309. LESLIE, S. W., and R. JENSEN Identification of volatile flavor components in foods. 13th Annual Mid-American Symposium on Spectroscopy, Chicago, 30 April
310. LORD, W. E. Concept of use for dehydrated foods. Dehydrated Foods Orientation Course for Inspectors, AFFCI, Chicago, 3 April
311. \_\_\_\_\_ Specification development. U. S. Army Medical Service Veterinary School, Chicago, 31 January, 6 March, 4 April, and 5 September
312. \_\_\_\_\_ Specification requirements. Dehydrated Foods Orientation Course for Inspectors, AFFCI, Chicago, 5 April
313. \_\_\_\_\_ Standardization on new developments in military rations. Walter Reed Army Hospital, Washington, 21 September
314. \_\_\_\_\_ Subsistence specifications standards and directives. U. S. Army Medical Service Veterinary School, Chicago, 24 April and 8 May
315. MASON, O. E. Current research and development in the field of cereal and baked products. Quartermaster Subsistence School, Fort Lee, Va., 23 October
316. MATTHERN, R. O. Research in the development of unconventional foods. Research and Development Associates Military-Industry Conference, Chicago, 25 October
317. MEHRLICH, F. P. Activities of the Quartermaster Food and Container Institute for the Armed Forces. Industry Day, QM R&E Center, Natick, 18 May
318. \_\_\_\_\_ Challenges in food engineering. American Society of Agricultural Engineers, Washington, 17-20 June
319. \_\_\_\_\_ Convenience foods for the future. Institute of Food Technologists (New York Chapter), New York City, 17 October

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320. MEHRLICH, F. P. The current status of the U. S. food radiation sterilization program. Institute of Food Technologists Annual Meeting, Miami Beach, 10-14 June
321. \_\_\_\_\_ Food preservation by nuclear energy. Nuclear Congress, New York City, 4-6 June
322. \_\_\_\_\_ Where are we in food irradiation? Research and Development Associates 16th Annual Meeting, Chicago, 24-26 April
323. NECKER, W. L. Documentation in the food field. Conference on Abstracting and Documentation in Food Science, Food Technology, and Food Engineering, Lansing, Mich., 10 April
324. NOBLE, E. L. Concepts of military operational rations, present and future. Medical Education for National Defense Symposium, Fitzsimons General Hospital, Denver, Colo., 15 May
325. OSTER, M. S. Standardization and the development of specifications. U. S. Army Medical Service Veterinary School, Chicago, 12 October
326. \_\_\_\_\_ Standardization within the Department of Defense. U. S. Army Medical Service Veterinary School, Chicago, 30 November
327. PERYAM, D. R. Behavioral measurement of food quality: its implications for quality control. 18th Annual Quality Control Conference of the Rochester Section, American Society for Quality Control, Rochester, N. Y., 27 March
328. \_\_\_\_\_ Psychological measurement of food properties. Conference on the Flavor and Texture of Foods, Eastern Experiment Station, U. S. Dept. of Agriculture, Philadelphia, 30 October
329. \_\_\_\_\_ Variability of taste perception. Institute of Food Technologists Annual Meeting, Miami Beach, 10-14 June
330. RAMSKOV, B. Specification development. U. S. Army Medical Service Veterinary School, Chicago, 5 and 15 June
331. RAUCH, A. C. Food technology and processing to meet ration requirements. Medical Education for National Defense Symposium, U. S. Army Medical Research and Nutrition Laboratory, Fitzsimons General Hospital, Denver, Colo., 15 May
332. \_\_\_\_\_ Freeze-dried foods for the armed forces. Freeze-Drying Conference, Oregon State University, Corvallis, Oreg., 1 November

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333. RAUCH, A. C. Production testing. Dehydrated Foods Orientation Course for Inspectors, AFFCI, Chicago, 5 April
334. RUBINATE, F. J. Flexible packaging for the military. American Management Association, Chicago, 14-16 May
335. SAVICH, A. L. New methods of fabrication and preservation of meat products. Quartermaster Subsistence School, Fort Lee, Va., 28 November
336. SCHNEIDER, M. D. Sporulation of Clostridium botulinum types A, B, and E, Clostridium perfringens, and P.A. 3679 in dialysis sacs. American Society of Microbiologists, Kansas City, Mo., 9 May
337. SIMON, M. Radiation preservation of food. Illinois Cannery School, Urbana, Ill., 10 January
338. SNYDER, O. P. Latest progress in the radiation preservation of foods program. U. S. Army Medical Service Veterinary School, Chicago, 25 May
339. \_\_\_\_\_ Radiation sterilization of food. U. S. Army Medical Service Veterinary School, Chicago, 12 and 27 April
340. YOUNG, D. R. Effect of food intake on performance capabilities. Third Army Science Conference, West Point, N. Y., 19-22 June

Books

341. AFFCI and NAS-NRC Freeze-Drying of Foods: Proceedings of a Conference. 237 pp., 1962
342. CECIL, S. R., and J. C. WOODROOF (University of Georgia). Long-Term Storage of Military Rations. Published by Armed Forces Food and Container Institute. 231 pp., 1962

New Books Appraised

343. NECKER, W. L. Library Journal, 87: 99, 108, 230, 569, 985, 1467, 1962

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Book Review

344. BROCKMANN, M. C. The accelerated freeze-drying (AFD) method of food preservation. Food Technol. 16: 92-93 (July)

Miscellaneous

345. MITCHELL, J. H., JR.; and A. S. HENICK Rancidity in food products, 453-92 (W. O. Lundberg "Autoxidation and Antioxidants," Vol. II)
346. NECKER, W. L. Deduct it from your income tax. Library J. 87: 43-45 (January)

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