

INDEX TO VOLUME 55

AUTHOR INDEX

- Agasie, F. R.** (see P. M. Ranum)321
- Akinrele, I. A.** (see O. Olatunji)1
- Anderson, P. D.** (see B. L. Bruinsma) ...732
- Anderson, R. A.** (see L. L. Navickis) ...544
- Avellini, P.** (see G. Burini)628
- Badi, S. M., and R. C. Hosenev.** Corn flour: Use in cookies495
_____ and **W. D. Eustace.**
Corn flour: Reduction of particle size .489
- Barabolak, R., C. R. Colburn, D. E. Just, F. A. Kurtz, and E. A. Schleichert.** Communication to the editor. Apparatus for rapid inspection of corn for aflatoxin contamination1065
- Barbiroli, G., A. M. Garutti, and P. Mazzaracchio.** Note on behavior of 1-amino-1-deoxy-2-ketose derivatives during cooking when added to starch-based food-stuffs1056
- Bates, L. S.** (see G. H. Keltner)908
- Bean, M. M., and W. T. Yamazaki.** Wheat starch gelatinization in sugar solutions. I. Sucrose: Microscopy and viscosity effects936
_____ and **D. H. Donelson.**
Wheat starch gelatinization in sugar solutions. II. Fructose, glucose, and sucrose: Cake performance945
- Bechtel, D. B., Y. Pomeranz, and A. de Francisco.** Breadmaking studied by light and transmission electron microscopy .392
- Bennett, G. A., E. E. Vandegrift, O. L. Shotwell, S. A. Watson, and B. J. Bocan.** Zearalenone: Distribution in wet-milling fractions from contaminated corn ...455
- Birmingham, V. A.** (see L. A. Wilson) ..661
- Bobbio, F. O., A. A. El-Dash, P. A. Bobbio, and L. R. Rodrigues.** Isolation and characterization of the physicochemical properties of the starch of jackfruit seeds (*Artocarpus hetero-hyllus*)505
- Bobbio, P. A.** (see F. O. Bobbio)505
- Bocan, B. J.** (see G. A. Bennett)455
- Bockholt, A. J.** (see E. B. Lillehoj)1007
- Bohlin, L.** (see T. Carlson)539
- Bothast, R. J.** (see C. W. Hesseltine) ...332
- Boundy, J. A.** (see B. T. Hofreiter)995
- Brekke, O. L., and A. C. Stringfellow.** Aflatoxin in corn: A note on ineffectiveness of several fumigants as inactivating agents 518
- Bruinsma, B. L., P. D. Anderson, and G. L. Rubenthaler.** Rapid method to determine quality of wheat with the mixograph. .732
- Burini, G., P. Damiani, and P. Avellini.** De-termination of egg content of noodles—an evaluation of results obtained by different procedures628
- Bushuk, W.** (see K. Kobrehel)1060
- Calvert, O. H.** (see E. B. Lillehoj)1007
- Campos, J. E., and A. A. El-Dash.** Effect of addition of full fat sweet lupine flour on rheological properties of dough and baking quality of bread619
- Carlson T., and L. Bohlin.** Communication to the editor. Free surface energy in the elasticity of wheat flour dough539
_____ **K. Larsson, and Y. Miezis.** Phase equilibria and structures in the aqueous system of wheat lipids168
- Cashman, W. E.** (see D. R. Lineback) ..415
- Catsimpoolas, N.** (see M. Draper)16
- Cavins, J. F.** (see J. Sanderson)204
- Chabot, M.-A.** (see H. Daoust)255
- Chapman, D. W.** (see B. W. DeHaas) ...127
- Chung, K. H., and Y. Pomeranz.** Acid-soluble proteins of wheat flours. I. Effect of delipidation on protein extraction230
- Chung, O. K.** Cereal lipids: What they are and what they do (symposium).....547
_____ **Y. Pomeranz, and K. F. Finney.**
Wheat flour lipids in breadmaking (Symposium)598
_____ and **M. D. Shogren.** Defatted and reconstituted wheat flours. III. Effects of flour moisture content and aqueous binary azeotropes on functional (breakmaking) properties ...31
- Ciaccio, C. F., and B. L. D'Appolonia.** Baking studies with cassava and yam flour. I. Biochemical composition of cassava and yam flour402
_____ and _____ Baking studies with cassava and yam. II. Rheological and baking studies with tuber-wheat flour blends423
- Colburn, C. R.** (see R. Barabolak)1065
- Comer, F. W., and M. K. Fry.** Purification, modification, and properties of air-classified pea starch818
- Creinin, H. L.** (see M. Shemer)383
- Dahle, L. D., and E. P. Montgomery.** A method for measuring strength and extensibility of bread crumb197
- Damiani, P.** (see G. Burini)628
- Daoust, H., M.-A. Chabot, and R. Wasik.** Note on water-binding effect of two dough conditioners255

- D'Appolonia, B. L.** (see C. F. Ciacco) . . . 402
 _____ (see C. F. Ciacco) 423
 _____ (see M. Evenson) 110
 _____ (see M. M. Tabekhia) 1050
 _____, and **V. L. Youngs**. Effect of bran and high-protein concentrate from oats on dough properties and bread quality . . . 736
- Daun, J. K.** Mathematical method for estimating color of spaghetti and mustard flour 692
- Davis, M. A. F.** (see V. B. Kamat) 295
- de Francisco, A.** (see D. B. Bechtel) 392
- DeHaas, B. W., D. W. Chapman, and K. J. Goering**. An investigation of the α -amylase from self-liquefying barley starch 127
- Dexter, J. E.** (see R. R. Matsuo) 744
 _____ (see K. R. Preston) 877
 _____, **B. L. Dronzek, and R. R. Matsuo**. Scanning electron microscopy of cooked spaghetti 23
 _____, and **R. R. Matsuo**. The effect of gluten protein fractions on pasta dough rheology and spaghetti-making quality . . 44
 _____, and _____ Effect of semolina extraction rate on semolina characteristics and spaghetti quality 841
- Deyoe, C. W.** (see M. Tu) 766
 _____ (see M. Tu) 773
- Donaldson, G. L.** (see J. Sanderson) 204
- Donelson, D. H.** (see M. M. Bean) 945
- Draper, M., and N. Catsimpoilas**. Disulfide and sulfhydryl groups in glycinin . . 16
- Dronzek, B. L.** (see J. E. Dexter) 23
 _____ (see R. R. Matsuo) 744
- El-Dash, A. A.** Standardized mixing and fermentation procedure for experimental baking test 436
 _____ (see F. O. Bobbio) 505
 _____ (see J. E. Campos) 619
 _____, **A. Tosello, and G. Roa**. Pregelatinized cara (water yam) flour: Effect on dough and bread quality 799
- Eustace, W. D.** (see S. M. Badi) 489
 _____ (see M. Tu) 766
 _____ (see M. Tu) 773
- Evenson, M., and B. L. D'Appolonia**. Note on the relation between bread crust and crumb color scores and color reflectance values 110
- Faridi, H. A., and J. A. Johnson**. Saltine cracker flavor. I. Changes in organic acids and soluble nitrogen constituents of cracker sponge and dough 7
- Fecht, R. J.** (see B. T. Hofreiter) 995
- Feillet, P.** (see M. F. Jeanjean) 864
- Fernandes, J. L. A., W. C. Shuey, and R. D. Maneval**. Bread wheat granular millstreams with a potential for pasta production. I. Physical and analytic properties 308
- Findley, W. R.** (see E. B. Lillehoj) 1007
- Finney, K. F.** (see O. K. Chung) 31
 _____ (see O. K. Chung) 598
 _____ (see G. L. Lookhart) 967
 _____ (see R. Rousser) 521
- Fleming, S. E., and F. W. Sosulski**. Microscopic evaluation of bread fortified with concentrated plant proteins 373
- Fong, R. Y.** (see K. Lorenz) 830
- Freed, R. C., and D. S. Ryan**. Note on modification of the Kunitz soybean trypsin inhibitor during seed germination 534
- Fry, M. K.** (see F. W. Comer) 818
- Fujino, Y.** Rice lipids (symposium) 559
 _____ (see T. Miyazawa) 138
- Fulcher, R. G.** (see P. J. Wood) 952
- Galal, A. M., J. A. Johnson, and E. Varriano-Marston**. Lactic and volatile (C₂-C₅) organic acids of San Francisco sourdough French bread 461
 _____, **E. Varriano-Marston, and J. A. Johnson**. Rheological dough properties as affected by organic acids and salt 683
- Garutti, A. M.** (see G. Barbiroli) 1056
- Gill, T. A., and M. A. Tung**. Chemistry and ultrastructure of a major aleurone protein of rapeseed meal 180
 _____, and _____ Electrophoretic and immunochemical properties of the 12S rapeseed protein 809
- Goering, K. J.** (see B. W. DeHaas) 127
- Gohl, B., M. Nilsson, and S. Thomke**. Distribution of soluble carbohydrates in barley grain at late stage of maturity and relation to viscosity 341
- Graham, G. E.** (see V. B. Kamat) 295
- Guthrie, W. D.** (see E. B. Lillehoj) 1007
- Hesseltine, C. W.** (see R. F. Rogers) 889
 _____, **R. F. Rogers, and R. J. Bothast**. Microbiological study of exported soybeans 332
 _____ (see E. W. Swain) 412
- Hibberd, G. E., and N. S. Parker**. A parallel plate rheometer for measuring the viscoelastic properties of wheat flour doughs 102
- Hofreiter, B. T., K. L. Smiley, J. A. Boundy, C. L. Swanson, and R. J. Fecht**. Novel modification of cornstarch by immobilized α -amylase 995
- Holas, J., and K. H. Tipples**. Factors affecting farinograph and baking absorption. I.

- Quality characteristics of flour streams 637
 _____ (see K. H. Tipples) 652
- Horner, E. S.** (see E. B. Lillehoj) 1007
- Hoseney, R. C.** (see S. M. Badi) 489
 _____ (see S. M. Badi) 495
 _____ (see D. R. Lineback) 415
 _____ (see L. F. Schroeder) 348
- Irvine, G. N.** (see P. C. Williams) 263
- Irwin, W. E.** (see M. Shemer) 383
- Jeanjean, M. F., and P. Feillet.** Physico-chemical properties of wheat gel proteins: Effects of isolation conditions 864
- Johnson, J. A.** (see H. A. Faridi) 7
 _____ (see A. M. Galal) 461
 _____ (see A. M. Galal) 683
- Jones, B. L.** (see G. L. Lookhart) 967
- Just, D. E.** (see R. Barabolak) 1065
- Kadan, R. S., G. M. Ziegler, Jr., and J. J. Spadaro.** Color of cottonseed flour and isolates as affected by mixed solvent extraction 919
- Kamat, V. B., G. E. Graham, and M. A. F. Davis.** Vegetable protein: Lipid interactions 295
- Kao, C., and R. J. Robinson.** Nutritional aspects of fermented foods from chickpea, horsebean, and soybean 512
- Keltner, G. H., L. S. Bates, and K. A. Mujeeb.** A dimethyl sulfoxide preparative treatment for sectioning cereal grains 908
- Kirleis, A. W.** (see R. D. Spies) 699
- Kissell, L. T.** (see N. Prentice) 712
- Kobrehel, K., and W. Bushuk.** Studies of glutenin. XII. Note on glutenin solubilization with surfactants in water 1060
- Konarev, A. V.** Identification of albumin 0.19 in grain proteins of cereals 927
- Kramer, P. L.** (see J. J. Warthesen) 481
- Kruger, J. E.** (see B. Marchylo) 188
 _____, and **B. Marchylo.** Note on the presence of debranching enzymes in immature wheat kernels 529
 _____, and **K. R. Preston.** Changes in aminopeptidases of wheat kernels during growth and maturation 360
 _____ (see K. R. Preston) 877
- Kulp, K.** (see P. M. Ranum) 321
- Kurtz, F. A.** (see R. Barabolak) 1065
- Kwolek, W. F.** (see E. B. Lillehoj) 1007
- Lai, F. S.** (see C. R. Martin) 779
- Lang, P.** (see M. E. Zabik) 524
- Larsson, K.** (see T. Carlson) 168
- Law, D. P.** (see R. Tkachuk) 981
- Lillehoj, E. B., W. F. Kwolek, M. S. Zuber, O. H. Calvert, E. S. Horner, N. W. Widstrom, W. D. Guthrie, G. E. Scott, D. L. Thompson, W. R. Findley, and A. J. Bockholt.** Aflatoxin contamination of field corn: Evaluation of regional test plots for early detection 1007
- Lindsay, R. C.** (see N. Prentice) 712
- Lineback, D. R., W. E. Cashman, R. C. Hoseney, and A. B. Ward.** Note on measuring thickness of wheat bran by scanning electron microscopy 415
- Loewe, R. J.** (see G. S. Ranhotra) 675
- Lookhart, G. L., B. L. Jones, and K. F. Finney.** Determination of coumestrol in soybeans by high-performance liquid and thin-layer chromatography 967
- Lorenz, K.** Selenium in wheats and commercial wheat flours 287
 _____, **R. Y. Fong, A. P. Mossman, and R. M. Saunders.** Long, medium, and short grain rices—Enzyme activities and chemical and physical properties 830
 _____, and **R. M. Saunders.** Enzyme activities in commercially milled rice 77
- MacGregor, A. W.** α -Amylase I from malted barley—Physical properties and action pattern on amylose 754
- Maneval, R. D.** (see J. L. A. Fernandes) 308
- Marchylo, B., and J. E. Kruger.** A sensitive automated method for the determination of α -amylase in wheat flour 188
 _____ (see J. E. Kruger) 529
- Martin, C. R., and F. S. Lai.** Measurement of grain dustiness 779
- Matsuo, R. R.** Note on a method for testing gluten strength 259
 _____ (see J. E. Dexter) 23
 _____ (see J. E. Dexter) 44
 _____ (see J. E. Dexter) 841
 _____, **J. E. Dexter, and B. L. Dronzek.** Scanning electron microscopy study of spaghetti processing 744
- Mazzaracchio, P.** (see G. Barbiroli) 1056
- McDonald, R. E.** (see M. Shemer) 383
- McWatters, K. H.** Cookie baking properties of defatted peanut, soybean, and field pea flours 853
- Meredith, J. O.** (see K. H. Tipples) 652
- Miezis, Y.** (see T. Carlson) 168
- Miyachi, H.** (see S. Ochiai-Yanagi) 157
- Miyazawa, T., H. Tazawa, and Y. Fujino.** Molecular species of triglyceride in rice bran 138
- Montgomery, E. P.** (see L. K. Dahle) 197
- Moon, D. P.** (see L. A. Wilson) 661
- Morrison, W. R.** Wheat lipid composition (symposium) 548
- Mossman, A. P.** (see K. Lorenz) 830
- Mujeeb, K. A.** (see G. H. Keltner) 908

- Naivikul, O., and B. L. D'Appolonia.** Comparison of legume and wheat flour carbohydrates. I. Sugar analysis 913
- Nandi, B.** Glucosamine analysis of fungus-infected wheat as a method to determine the effect of antifungal compounds in grain preservation 121
- Navickis, L. L., and R. A. Anderson.** Communication to the editor. Composition of a by-product of wild rice processing 544
- Nilsson, M.** (see B. Gohl) 341
- Ochiai-Yanagi, S., H. Miyauchi, K. Saio, and T. Watanabe.** Modified soybean protein with high water-holding capacity 157
- Olaturuji, O., and I. A. Akinrele.** Comparative rheological properties and bread qualities of wheat flour diluted with tropical tuber and breadfruit flours 1
- Osman, E. M.** (see H. L. Savage) 447
- Pace, W., R. Parlamenti, A. Ur Rab, V. Silano, and L. Vitztozi.** Protein α -amylase inhibitors from wheat flour 244
- Parker, N. S.** (see G. E. Hibberd) 102
- Parlamenti, R.** (see W. Pace) 244
- Paton, D., and W. A. Spratt.** Component interactions in the extrusion cooking process. I. Processing of chlorinated and untreated soft wheat flour 973
 (see P. J. Wood) 1038
- Paulis, J. W., J. S. Wall, and J. Sanderson.** Origin of high methionine content in sugary-1 corn endosperm 705
- Pomeranz, Y.** (see D. B. Bechtel) 392
 (see K. H. Chung) 230
 (see O. K. Chung) 31
 (see O. K. Chung) 598
- Prentice, N., L. T. Kissell, R. C. Lindsay, and W. T. Yamazaki.** High-fiber cookies containing brewers' spent grain 712
- Preston, K. R.** Note on separation and partial purification of wheat proteases by affinity chromatography 793
 J. E. Dexter, and J. E. Kruger.
 Relationship of exoproteolytic and endoproteolytic activity to storage protein hydrolysis in germinating durum and hard red spring wheat 877
 (see J. E. Kruger) 360
 and K. H. Tipples. An ultracentrifuge flour absorption method 96
- Puyat, L. V.** (see G. S. Ranhotra) 675
- Ranhotra, G. S., R. J. Loewe, and L. V. Puyat.** Interaction and bioavailability of iron, zinc, and magnesium 675
- Ranum, P. M., K. Kulp, and F. R. Agasie.** Modified amylograph test for determining diastatic activity in flour supplemented with fungal α -amylase 321
- Reichert, R. D., and C. G. Youngs.** Nature of the residual protein associated with starch fractions from air-classified field peas .469
- Reiss, J.** Mycotoxins in foodstuffs. XI. Fate of aflatoxin B₁ during preparation and baking of wholemeal wheat bread ... 421
- Roa, G.** (see A. A. El-Dash) 799
- Robinson, R. S.** (see C. Kao) 512
- Rodrigues, L. R.** (see F. O. Bobbio) ... 505
- Rogers, R. F.** Bacillus isolates from refrigerated doughs, wheat flour, and wheat 671
 and C. W. Hesseltine. Microflora of wheat and wheat flour from six areas of the United States 889
 (see C. W. Hesseltine) 332
- Rooney, L. W.** Sorghum and pearl millet lipids (symposium) 584
- Rousser, R., and K. F. Finney.** Note on construction of efficient and safe crucible trays and tongs for muffle furnaces . . 521
- Rubenthaler, G. L.** (see B. L. Bruinsma) 732
- Ryan, D. S.** (see R. C. Freed) 534
- Saio, K.** (see S. Ochiai-Yanagi) 157
- Sanderson, J.** (see J. W. Paulis) 705
 J. S. Wall, G. L. Donaldson, and J. F. Cavins. Effect of alkaline processing of corn on its amino acids 204
- Saunders, R. M.** (see K. Lorenz) 77
 (see K. Lorenz) 830
- Savage, H. L., and E. M. Osman.** Effects of certain sugars and sugar alcohols on the swelling of cornstarch granules 447
- Schleichert, E. A.** (see R. Barabolak) .. 1065
- Schmidt, R. H.** The effect of heat treatment on aggregation and gelation of peanut/milk protein blends 58
- Schroeder, L. F., and R. C. Hosney.** Mixograph studies. II. Effect of activated double-bond compounds on dough-mixing properties 348
- Scott, G. E.** (see E. B. Lillehoj) 1007
- Shemer, M., H. L. Creinin, R. E. McDonald, and W. E. Irwin.** Functional properties of a new soy protein isolate 383
- Shogren, M. D.** (see O. K. Chung) 31
- Shotwell, O. L.** (see G. A. Bennett) 455
- Shuey, W. C.** (see J. L. A. Fernandes) .. 308
- Siddiqui, R.** (see P. J. Wood) 1038
- Sigurdson, J. T.** (see P. C. Williams) ... 214
- Silano, V.** Biochemical and nutritional significance of wheat albumin inhibitors of α -amylase 722
 (see W. Pace) 244

- Smiley, K. L. (see B. T. Hofreiter)995
- Snyder, H. E. (see L. A. Wilson)661
- Sosulski, F. W. (see S. E. Fleming)373
- Spadaro, J. J. (see R. S. Kadan)919
- Spies, R. D., and A. W. Kirleis. Effect of free flour lipids on cake-baking potential . .699
- Spratt, W. A. (see D. Paton)973
- Stevenson, S. G. (see P. C. Williams) . .263
- Stringfellow, A. C. (see O. L. Brekke) . .518
- Swain, E. W., H. L. Wang, and C. W. Hesselstine. Note on vitamins and minerals of wild rice412
- Swanson, C. L. (see B. T. Hofreiter) . . .995
- Tabekhia, M. M., R. B. Toma, and B. L. D'Appolonia.** Macromineral and micro-mineral distribution in bread produced by conventional and continuous (mechanical development) methods1050
- Tazawa, H. (see T. Miyazawa)138
- Thomke, S. (see B. Gohl)341
- Thompson, B. N. (see P. C. Williams) .1014
- Thompson, D. L. (see E. B. Lillehoj) .1007
- Tipples, K. H. (see J. Holas)637
- _____, J. O. Meredith, and J. Holas. Factors affecting farinograph and baking absorption. II. Relative influence of flour components652
- _____, (see K. R. Preston)96
- Tkachuk, R., and D. P. Law. Near infrared diffuse reflectance standards981
- _____, (see J. R. Warchalewski) . . .146
- Toma, R. B. (see M. M. Tabekhia) . . .1050
- Tosello, A. (see A. A. El-Dash)799
- Tsen, C. C. (see C. C. Tu)87
- Tu, C. C., and C. C. Tsen. Effects of mixing and surfactants on microscopic structure of wheat glutenin87
- Tu, M., C. W. Deyoe, and W. D. Eustace. Exploring buffalo gourd seeds with scanning electron microscopy773
- _____, W. D. Eustace, and C. W. Deyoe. Nutritive value of buffalo gourd seed protein766
- Tung, M. A. (see T. A. Gill)180
- _____, (see T. A. Gill)809
- Ur Rab, A. (see W. Pace)244
- Vandegrift, E. E. (see G. A. Bennett) . .455
- Varriano-Marston, E. (see A. M. Galal) .461
- _____, (see A. M. Galal)683
- Vittozzi, L. (see W. Pace)244
- Vose, J. R., and C. G. Youngs. Fractionation of barley and malted barley flours by air classification280
- Wall, J. S. (see J. W. Paulis)705
- _____, (see J. Sanderson)204
- Wang, H. L. (see E. W. Swain)412
- Warchalewski, J. R., and R. Tkachuk. Durum wheat α -amylases: Isolation and purification146
- Ward, A. B. (see D. R. Lineback)415
- Warthesen, J. J., and P. L. Kramer. High-pressure liquid chromatographic method for evaluating free lysine stability in lysine-fortified wheat-flour products481
- Wasik, R. (see H. Daoust)255
- Watanabe, T. (see S. Ochiai-Yanagi) . .157
- Watson, S. A. (see G. A. Bennett) . . .455
- Weber, E. J. Corn lipids (symposium) . .572
- Widstrom, N. W. (see E. B. Lillehoj) .1007
- Williams, P. C., and J. T. Sigurdson. Implications of moisture loss in grains incurred during sample preparation214
- _____, S. G. Stevenson, and G. N. Irvine. Testing wheat for protein and moisture with the automated digital analyzer263
- _____, and B. N. Thompson. Influence of wholemeal granularity on analysis of HRS wheat for protein and moisture by near infrared reflectance spectroscopy (NIRS)1014
- Wilson, L. A., V. A. Birmingham, D. P. Moon, and H. E. Snyder. Isolation and characterization of starch from mature soybeans661
- Wood, P. J., and R. G. Fulcher. Interaction of some dyes with cereal β -glucans . .952
- _____, R. Siddiqui, and D. Paton. Extraction of high viscosity gums from oats1038
- Yamazaki, W. T. (see M. M. Bean) . . .936
- _____, (see M. M. Bean)945
- _____, (see N. Prentice)712
- Youngs, C. G. (see R. D. Reichert) . . .469
- _____, (see J. R. Vose)280
- Youngs, V. L. Oat lipids (symposium) . .591
- _____, (see B. L. D'Appolonia) . . .736
- Zabik, M. E., and P. Lang. Note on performance of low-cholesterol egg substitutes in layer cakes524
- Ziegler, G. M., Jr. (see R. S. Kadan) . .919
- Zuber, M. S. (see E. B. Lillehoj)1007