

Names	Years Member	Names	Years Member
Narvins, S. R.	1930-	Ozburn, Gertrude	1927-
Naumann, Lillian W.	1948-49	Ozier, Mary Alice	1948-50
Neal, Arthur H.	1951-53	Pace, Marius	1930-
Nelson, Gid, Jr.	1953-	Padgett, Carol Ann	1958-
Nesbitt, Paul H.	1951-	Page, Rufus H., Jr.	1944-
Nettles, Lon E.	1942-44	Paine, Thomas F.	1958-
Nevin, Thomas A.	1954-55	Pallister, Hugh D.	1924-27, 1947-
Newman, Julian	1927-	Palmer, G. D.	1930-
Newman, Lucian	1927-	Pankey, Paul	1956-57
Newsome, W. R.	1939-42	Pannell, P. P.	1933-
Newton, R. H.	1940-42	Pardue, L. G.	1936-42
Nichols, Samuel H., Jr.	1949-	Park, David Allen	1948-49
Nicholson, Catherine S.	1956-	Parker, W. V.	1956-
Nickerson, Paul	1927-	Parks, Billy Ray	1956-57
Nixon, H. W.	1942-44	Parks, Helen C.	1942-44
Nixon, Lochran C.	1954-55	Parks, Mrs. S. Laws	1951-57
Nixon, Willard L.	1946-	Parrish, John W.	1954-57
Nolen, Percy	1927-	Parson, R. L.	1940-42
Noles, Billy Jack	1955-57	Parsons, Sara Mariam	1951-52
Noojin, Ray O.	1947-49	Parsons, Vivian	1951-53
Nork, John Joseph	1938-42	Partlow, W. D.	1938-42
Norman, Joe R.	1954-55	Passmore, Harry	1927-
Norris, Mrs. Earl	1941-42	Paterson, Haygood	1940-54
North, W. E.	1936-42	Patrick, Charles	1951-53
Nunn, Grady H.	1955-	Patterson, Edwin S.	1951-53
Nyholm, Holger J.	1954-57	Patterson, Mary Hugh	1951-53
Oakes, Sadie	1951-55	Patton, Anna R.	1956-57
Obenchain, Louise F.	1946-49	Patton, Ernest Gibbs	1954-
Oberdoerfer, Benedict	1927-32	Patton, Frances M.	1958-
O'Bryan, Deric	1954-55	Patton, John J.	1950-53
Oden, E. Clarence	1956-	Patty, J. R.	1943-47
Ogden, Frederick D.	1955-	Paul, Edna	1951-
O'Kelley, Joseph Charles	1953-	Paustian, E. C.	1954-
O'Leary, W. D.	1946-49	Payne, W. G.	1930-32
Olive, Alfred H.	1942-48	Peacock, J. Talmer	1955-
Oliver, R. B.	1942-43, 1946-48	Pearsall, Marion	1954-
Oppitz, Louis K.	1924-27	Pearson, A. M.	1938-43
Ordway, Frank	1927-	Pelham, J. D.	1948-53
Osburg, Theresa	1937-40	Pendergrass, Suervilla	1958-
†Ott, W. P.	1930-45	Pennington, Elsie	1940-44
Ottis, Kenneth	1954-	Peoples, Stuart A.	1940-45
†Overton, A. G.	1927-47	Pepinsky, Raymond	1943-49
Overton, Eleazor C.	1954-	Peters, Ruth M.	1936-37
Owen, Marie B.	1948-49, 1955-	Peterson, Carl G. B.	1948-
Owens, Charles H.	1951-54	Peterson, Joe G.	1950, 1956-57
Owens, James W.	1956-57	Petzal, Florence Eloise	1953-55
Owens, Rev. Robert	1951-53	Pharris, Darrol	1958-
Owens, Susan Ellen	1943-	Phillips, Grady W.	1943-49
Owings, W. J. B.	1930-	Piano, Arthur G. T.	1955-57

Names	Years Member	Names	Years Member
Pigman, Ward	1950-	Puttman, James H.	1927-
Pike, Mabel R.	1941-43	Pye, Orrea F.	1940-42
Pilkington, A. J.	1941-49	Pyron, Charles O.	1951-53
Pinkston, James O.	1927-32	Quayle, Margaret S.	1951-53
Pirenian, Z. N.	1930-32	Quillin, James Allen	1951-53
Pitman, Jean E.	1957-	Quinn, I. T.	1938-42
Pittman, Constance S.	1958-	Radideau, Gerald F.	1951-53
Pittman, R. T.	1927-	Ragsdale, L. V.	1932-33
Pitts, Robert G.	1956-	Ramey, Doyle Winford	1953-57
Platt, David	1951-55	Ramsdell, D. A.	1941-42
Poitrass, Adrian W.	1956-	Rarick, Alford J.	1949-
Pollock, Lester O., Jr.	1949-55	Rasor, F. W.	1941-48
Pomerat, C. M.	1941-45	Rau, Edward	1956-57
Ponder, Reba C.	1948-50	Rau, William S.	1958-
Pool, R. M.	1941-47	Rawls, Hugh C.	1951-55
Poole, Donald L.	1956-57	Rawls, John L.	1958-
Poole, Finis Winston	1951-55	Rea, Robert R.	1956-57
Poole, G. R.	1941-48	Reade, Harold L., Jr.	1953-55
Poole, William L.	1958-	Reams, D. C., Jr.	1950-55
Poor, R. S.	1930-48	Redmond, Howard R.	1958-
Poore, Gerald A.	1955-57	Redmond, Paul A.	1951-53
Pope, Dealie W.	1955-57	Reece, Orville Y.	1958-
Porter, Earl	1956-	Reed, Clyde T.	1943-45
Porter, Elizabeth S.	1947-54	Reeves, W. P., Jr.	1941-44
Posey, Henry G.	1951-53	Regal, Eugene T.	1949-54
Posey, Louis C.	1933-49	Rehling, C. J.	1933-35
Powell, Frank B.	1955-57	Reid, Anna Jane	1949-55
Powell, Maurice	1941-43	Reid, Mrs. Harry	1956-
Powell, Patricia	1959-	Reiner, Charles	1946-
Powell, P. P.	1930-32, 1956-	†*Reinke, E. E.	1932-40
Powell, William J.	1955-	Reitman, Sanford	1957-
Powell, William S.	1957-	Renger, J. J.	1934-38
Powers, Richard	1953-57	Reno, G. B.	1940-
Prather, Mary Elizabeth	1956-	Reno, G. E.	1939-
Pressley, W. S.	1941-49	Reque, Paul G.	1958-
Prestridge, Virginia W.	1956-	Reynolds, J. P.	1936-50
Price, Edwin O.	1951-	Reynolds, William B.	1958-
Price, Emmett W.	1957-	Rhein, Walter J.	1955-
Price, J. L.	1951-	Rhodes, Albert Louis	1956-57
Price, Leroy	1957-	Richards, D. B.	1958-
Pritchett, C. O.	1937-44	Richards, Edward F.	1937-49
Pritchett, Charlotte	1957-	Richards, Leon W.	1943-45
Priester, Harold	1947-50	Richardson, Jesse M.	1954-
Prilchett, Douglas	1927-	Richmond, Frederick I.	1949-
Pruitt, C. M.	1930-33	Riddle, Mary A.	1957-
Pugh, Condie	1927-	Riggan, Fred B.	1937-42
Purdon, Cloyce L.	1956-57	Riggsby, Ernest D.	1958-
Purvis, Edward E., III	1956-57	Ringwold, Eugene L.	1956-
Putman, Robert L.	1927-	Rines, DeLeath	1957-

Names	Years	Member	Names	Years	Member	Names	Years	Member	Names	Years	Member
Rines, John E.	1954-		Sauer, Mary Elmore	1938-42		Shotts, Reynolds	1945-		Snyder, Andrew J.	1951-57	
Roberts, Bruno R.	1954-		Saunders, Charles R.	1956-		Shotts, Mrs. Will Lacey	1951-57		Snyder, Ernest E.	1954-	
Roberts, Leo Bogan	1948-		Saunders, P. C.	1924-		Showalter, Benjamin R.	1950-		Snyder, Robert Loring	1956-	
Roberts, Sister Mary	1958-		Schaeffer, Harold F.	1948-49		Shull, Barney L.	1954-		Soday, Frank J.	1953-	
Robertson, Robert L.	1954-		Schneyer, Leon H.	1953-		Shumaker, Thomas P.	1955-		Sommer, Anna L.	1936-49	
Robinson, Edward L.	1954-55		Schnitzlein, Harold N.	1959-		Siegal, Paul S.	1948-53		Sorrell, Inez G.	1956-57	
Robinson, I. B.	1951-52		Scholtz, Elizabeth	1951-53		Silvia, E. R.	1943-44		Southern, John Albert	1953-57	
†Robinson, J. M.	1924, 1930-49		Schoonmaker, George R.	1948-49		Simmons, Alvin C.	1959-		Sowell, Inez G.	1958-	
Robinson, Leonard	1953-55		Schrader, Glenn Allen	1949-50		Simmons, Donald C.	1957-		Spann, Ransom Davis	1956-	
Robinson, Mary E.	1927-49		Schultz, E. Fred, Jr.	1955-57		Simmons, G. A., Jr.	1950, 1954-55		Sparks, Frank Milton	1948-55	
Robinson, True B.	1955-		Schultz, O. W.	1941-43		Simmons, Woodrow	1933-36		Speake, Dan W.	1958-	
Robinson, U. M.	1948-49		Schwartz, F. F.	1958-		Simms, Harvey L.	1949-		Spearman, George K.	1927-	
Rodgers, Eric M.	1938-		Scott, Dorothy	1933-36		Simpson, Thomas A.	1953-		Spencer, Gilber O.	1957-	
Roger, Wiley S.	1956-		Scott, John C.	1955-57		Sims, Robert McNeil	1949, 1954-55		Spencer, Lilly H.	1956-	
Rogers, Daniel H.	1951-53		Scott, Louis D.	1956-		Sinski, James T.	1956-57		Spidle, Marion W.	1956-	
Rogers, James P., Jr.	1949-		Scott, Robert B., Jr.	1955-		Sipe, H. Craig	1949-		Spies, Tom D.	1943-	
Rosano, Carmen Louis	1951-52		Searcy, Margaret Z.	1954-		Sizemore, Julian J.	1958-59		Spieith, A. M.	1930-	
Rose, E. H.	1948-55		Sechrest, E. E.	1944-48		Sizemore, Troy B.	1933-42		Sproull, Reavis C.	1948-49	
Rosen, Lawrence	1951-		Sechriest, E. C.	1924-		Sizemore, W. R.	1941-		Stabler, A. C.	1930-32	
†Ross, B. B.	1924-27		Seebeck, Charles L., Jr.	1951-54		Skinner, Robert W.	1959-		Stabler, Carey V.	1944-49	
Ross, C. Phillips	1951-53		Seibold, Herman Rudolph	1956-		Skipper, Howard E.	1948-49		Stahlein, R. S.	1947-48	
Ross, Donald W.	1948-49		Sell, William	1930-35		Slack, Archie V.	1951-55		Stallworth, Mary Virginia	1948-50	
Roth, Wolfgang	1959-61		Sellers, Edward M.	1956-		Sledd, Arthur	1935-44		Standridge, Yvonne	1957-	
Rowan, F. M.	1927-		Sellers, Evelyn	1948-49		Sledge, Eugene B.	1955-57		Stanfield, James A.	1955-	
Rowe, Luther Conrad	1956-57		Sellers, Henry G., Jr.	1948-49		Smalley, Glendon	1957-		Stanfield, Zenas A.	1954-57	
Roy, William D.	1945-46		Sellers, William D.	1956-		Smith, Anthony J.	1955-		Starling, J. H.	1939-43	
Royal, Dan C.	1948-54		Sellmann, A. H.	1930-32		Smith, C. B.	1946-49		Starling, William B.	1951-53	
Ruark, Arthur E.	1954-		Sensenig, E. Carl	1944-45, 1954-		Smith, Carol Ann	1956-57		Starnes, Willard R.	1950-53	
Rudolph, A. S.	1945-49		Sevier, Sister Mary S.	1954-		Smith, Claudia	1958-		Starr, L. E.	1939-44	
Ruf, Hazel	1958-		Shackelford, James F.	1951-53		Smith, Donald F.	1955-		Stauffer, Jacob M.	1945-	
Ruffin, W. A.	1939-42		Shamblee, Thomas E.	1956-57		Smith, E. V.	1939-		Steele, H. C.	1950-53	
Ruggles, D. N.	1941-42		Shan, William P.	1954, 1956-57		Smith, Estelle	1951-53		Steele, H. Ellsworth	1954-	
Rupert, Rodney	1958-		Shaner, Catherine	1957-		†Smith, Eugene A.	1924-27		Stelzenmuller, James G.	1948-	
Rushing, E. D.	1934-43		Sharman, J. R.	1941-44, 1953-		Smith, Frank F.	1951-		Stephen, LeMar	1945-52	
Ruston, Allen	1944-54		Sharp, C. G.	1941-57		Smith, Genevieve	1946-47		Stephens, Lois Carter	1959-	
Rushton, E. R.	1942-54		†Shaver, Catherine	1957-58		Smith, Mrs. Guy W.	1957-		Stephens, Miles E.	1956-	
Rust, Henry B.	1945-		Shaw, Carlton Wilson	1951-53		Smith, H. E.	1941-43		Stephenson, Diana D.	1955-57	
Ruston, Allen	1951-53		Shelly, Alvin C.	1927-		Smith, Homer A.	1946-50		Stern, M. H.	1955-	
Rutherford, Rabun F.	1950-		Shelton, Rev. William H.	1954-		Smith, Jesse W.	1927, 1932-		Stevens, Frank J.	1951-	
Rutledge, R. W.	1936-44		Shepard, Richard T.	1927-		Smith, M. Phillis	1959-		Stevens, Russell B.	1942-47	
Sahhar, Fred H.	1954-55		Sheriff, Robert W.	1951-53		Smith, R. J.	1941-44		Stevens, Terrill C.	1949-50	
Sallas, James	1957-		Sherman, Harry L.	1955-57		Smith, Raymond C.	1948-49		Stevenson, Robert W.	1951-53	
Salmon, William D.	1927-		Sherman, Jackson R.	1951-52		Smith, Septima C.	1930-		Stewart, James W.	1948-57	
Sampey, John R.	1924-35		Sherrill, Richard B.	1943-45		Smith, T. O., Jr.	1951-53		Stewart, Mary Elizabeth	1957-	
Samuel, Howell C.	1937-		Shields, Alan J.	1959-		Smitherman, Arville	1957-		Stickney, Hazel Latendress	1949-	
Sanders, Robert H.	1956-		Shirley, Katherine	1930-32		Smithey, William R., Jr.	1949-57		Stimpson, William H.	1958-	
Sanford, Thomas H., Jr.	1954-		Shirley, Lawrence E.	1949-		†Smyth, Patrick H.	1924-46		Stitzer, R. B.	1951-57	
Sansing, Norman Glen	1955-		Shoffiett, Paul E.	1951-		Snoddy, Gaither B., Jr.	1955-57		Stone, P. T.	1930-35, 1954-	
Sartain, Carl C.	1954-55		Shotts, Emmett B., Sr.	1951-57		Snow, C. E.	1940-43		Strakes, Robert	1941-43	

Names	Years Member	Names	Years Member
Strange, Samuel T.	1948-	Tipton, Samuel	1945-47
Stratton, Harold M.	1942-	Todd, Carl David	1954-57
Strickland, Harold S.	1956-	Todhunter, E. Neige	1943-
Sudhoff, Ray W.	1954-	Toffel, G. M.	1941-50
Sulga, Louis L.	1937-	Toler, Brooks	1941-49
Sulkin, Norman M.	1938-42	Toulmin, Lyman, Jr.	1944-48
Sullivan, Edmund B.	1942-49	Tourtlot, Harry A.	1942-44
Sullivan, George J.	1935-36	Tower, James Allen	1938-
Sullivan, John L.	1954-	Towery, Thera Mae	1930-35
Sulzby, James F.	1951-	Townes, M. Halsey	1954-
Summersell, Charles G.	1955-	Traylor, Rebecca	1957-
Sutcliffe, Horace, Jr.	1953-57	Traylor, Weyman	1957-
Suter, L. S.	1942-45	Tribby, W. W.	1934-36
Swan, Eela O.	1941-42	Trigg, Edwin M.	1953-
Swann, Theodore	1927-35	Troup, Harold E.	1933-34
Swarthout, P. A.	1948-49	Tucker, Charles Eugene	1956-57
Swayne, V. R., Jr.	1940-42	Tucker, Edd Kyle	1948-57
Swindel, G. W., Jr. 1948-50,	1954-57	Tucker, Olon C.	1957-
Tankersley, Richard S.	1956-	Turner, Henry F.	1956-
Tapp, James S.	1954-57	Twelmeyer, Rev. G. O.	1951-
Tarbutton, Grady 1940-43,	1954-	Tyrea, Mrs. Charles W.	1955-57
Tarzwell, Clarence M.	1943-47	Ucci, Pompelio A.	1956-
Tate, John M.	1958-	Underwood, Bertha A.	1955-
Taylor, Geraldine	1954-57	Unger, Gus	1957-
Taylor, Jeype Lu	1959-	†Unnewehr, Emory C.	1954-57
Taylor, Robert J.	1948-	Valentine, Berry D.	1951-57
Teague, John H.	1958-	Valentine, Rev. Claude E.	1953-
Teague, Robert S.	1945-	Van Aller, T. S.	1930-44
Tedder, Joseph Wall	1950-	†Van Aller, Thomas	1927-
Tellier, A. J.	1935-49	Van Asselt, Robert L.	1951-53
Terrell, R. Paul	1950-	Van de Mark, Mildred S.	1956-
Thames, Eugene	1936-37	Vardaman, Thomas H.	1959-
Thelander, Karle E.	1951-53	Veal, J. R.	1930-32
Thomas, Adeeb E.	1953-57	Veazey, Thomas M.	1956-
Thomas, Carl Owens	1955-57	Vernon, Manfred C.	1958-
Thomas, F. L.	1924-	Viccars, Marion	1956-
Thomas, Gerald A.	1935-40	Vickery, Katherine	1946-
Thompson, Davis Hunt	1937-	Vinyard, Nell	1949-
Thompson, Georgia J.	1954-	Vogel, Frederick H.	1949-50
Thompson, Margene G.	1957-	Volker, Joseph F.	1951-
Thompson, Minouise	1941-43	Wade, Albert, Jr.	1956-57
Thompson, W. D.	1941-44	Wager, Alan T.	1943-49
Thompson, W. R., Jr.	1958-	Waid, Mary Helen	1951-53
Thompson, Wynelle D.	1945-	Walker, J. Henry 1930-36,	1948-
Tilley, Luvenia	1955-57	Walker, Joseph Clyde	1954-57
Tillman, John V.	1958-	Walker, Katherine 1930-32,	1953-
Tilson, W. L.	1942-44	Walker, W. D.	1936-37
Timonin, Michael I.	1954-57	Walkers, Raymond F.	1953-
Tims, Florence M.	1927-	Wallace, A. W.	1930-

Names	Years Member	Names	Years Member
Wallace, Mrs. John R.	1927-	Wheeler, J. H.	1942-43
Wallace, Roberta T.	1930-33	Wheeler, R. E.	1958-
Walsh, Genevieve	1935-36	Whitaker, Fred	1958-
†Walsh, Groesheck	1943-44	White, A. H.	1938-42
Walsh, Mary Vicent	1934-49	White, Charles W.	1927-
Walters, James	1955-57	White, Horace Gene	1957-
Walters, Raymond F.	1948-54	White, James M.	1937-42
Walters, Shelby L.	1948-49	White, Jesse Steven	1954-
Ward, Frederick W.	1936-39	White, Locke, Jr.	1948-
Ward, Henry S.	1955-	White, Rev. Urban	1936-44
Ward, James A.	1927-	White, W. E.	1934-36
Ward, Jane	1936-39, 1941-42	White, William S.	1939-
Ward, John F.	1958-	Whitehead, Fred	1951-
Ward, John M.	1942-49	Whitehead, James	1951-52
Ward, John T.	1955-57	Whitehurst, Robert N.	1949-
Ward, Mary E.	1958-	Whitehurst, W. L.	1930-33
Ward, Thomas	1941-43	Whiteside, James A.	1950-53
Ward, W. W.	1936-42	Whiting, William A.	1924-53
Ware, Lamar M.	1946-53	Whitney, Richard H.	1948-53
Waters, Taymond F.	1948-49	Whitt, Carlton D.	1954-
Watkins, Louise	1949-50	Widdowson, David C.	1958-
Watson, J. Hilton 1941-49,	1954-	Wiggins, William K.	1951-57
Watt, Lucile	1930-36	Wilbern, York	1955-57
Wattors, Ida R.	1951-55	Wilcox, H. E.	1941-
Waugh, James Douglas	1955-57	Wilkes, James C., Jr.	1949-
Wearn, Richard B.	1948-	Wilks, W. T.	1941-
Wearly, Betty, III	1949-50	†Williams, Bert C.	1948-53
Weatherford, W. J.	1932-	Williams, Glen Alvin	1956-
Webb, J. W.	1941-43	Williams, J. W.	1938-42
Webb, Lina	1939-42	Williams, Martin	1945-46
Webb, Virginia E.	1930-	Williams, Melvin R.	1948-57
Webster, Elizabeth	1955-57	Williams, S. J.	1932-42
Weed, Floyd	1927-	Williams, W. J.	1940-42
Weidner, John D.	1958-	Williamson, Grace	1941-43
Weigel, R. D.	1958-	Williamson, Josephine	1941-43
Weil, C. K.	1939-42	Williford, E. J.	1959-
Weiserman, Clarence E.	1954-	Willinton, Helen A.	1950-
Weishaupt, A. J.	1939-45	Willoughby, Herman L.	1954-57
Weishaupt, Clara G.	1946-47	Wills, William W.	1954-55
Welch, Martha Kate	1957-	Wilmare, J. J.	1930-32
Welch, Sue	1958-	Wilson, Arnold	1930-32
Wellington, Helen A.	1948-49	Wilson, Coyt	1940-42
Westland, A. F.	1934-47	Wilson, Hazel S.	1953-
Wesson, James Robert	1956-57	Wilson, James D.	1948-49
West, William Roy	1941-42	Wilson, L. T.	1953-
Westover, Frederick L.	1950-	Wilson, Pauline Park	1942-46
Wheat, Thomas G.	1951-53	Wilson, Samuel L.	1927-
Wheeler, E. J.	1959-	Wilson, Wilfred Kelson	1954-57
Wheeler, H. E.	1927-	Wimberly, Steve B.	1942-50

Names	Years Member
Wimberly, Mrs. Steve B.	1944-45
Wing, Herbert	1930-32
Wing, Walter	1958-
Wingard, R. E.	1938-
Wingard, Mrs. R. E.	1941-45
Wingo, William J.	1955-
Winkler, C. H.	1958-
Winter, J. E.	1958-
Wolff, Leontine	1927-
Wolford, Thomas F.	1927-
Wood, C. R.	1941-44
Wood, James W.	1955-57
Wood, John Eugene	1950-
Wood, Ralph McLamare	1935-36
Wood, Thomas A.	1924, 1936-43
Woodall, Percy H.	1938-49
Woodward, Robert T.	1951-53
Woolley, Mary	1927-50
Woolf, E. P.	1939-47
†Wooten, B. A.	1930-33

Names	Years Member
Work, Robert W.	1958-
Worley, Lillian	1940, 1941-48
Wright, Aubrey L.	1949-
Wright, O. H.	1927-
†Wu, Hsien	1950-53
†*Xan, John	1930-53
Yancey, P. H.	1938-
Yanchosek, John J.	1955-57
Yarbrough, Glory	1959-
Yates, Jane	1958-
Yates, Robert	1959-
Yielding, K. Lemone	1951-53
Yokeley, Paul J.	1951-
Yokom, Herbert A.	1951-
York, James A.	1927-
Young, Monroe	1943-44
Young, S. F.	1957-
Youngblood, R. W.	1933-36, 1957-
Zeilman, Charles K.	1924-
Zukoski, Charles F., Jr.	1955-58

APPENDIX II

FIRST CONSTITUTION OF THE ALABAMA ACADEMY OF SCIENCE

1924 (1)

ARTICLE I. NAME

This organization shall be known as the Alabama Academy of Science.

ARTICLE II. PURPOSE.

The purpose of this society shall be the study and the advancement of science.

ARTICLE III. MEMBERSHIP AND DUES

Membership shall be open to any one vitally interested in science (1) who is recommended by two members and is approved by the executive board or (2) who is recommended by two members and is elected by a majority of four-fifths of the members present at any open meeting. Voting shall be by ballot. Dues (1) shall be one dollar (\$1.00) per year. Charter members shall consist of those who shall pay their dues within sixty days after the meeting held to organize this society; attendance at this meeting shall not be a requisite.

ARTICLE IV. OFFICERS

The officers of this association shall be a president, first vice-president, second vice-president, and secretary-treasurer. These officers together with the retiring president shall constitute the executive committee. No one shall be eligible to office who is in arrears in the payment of his or her dues. The duties of these officers shall be those usually devolving upon such officers in formal organizations. The tenure of office shall be for one year or until successors shall be elected, except in the case of the retiring president, who shall automatically become a member of the executive board for the succeeding year.

ARTICLE V.

An annual meeting shall be held at such time and place as the executive board shall determine.

ARTICLE VI.

All disbursements made by the secretary-treasurer or by any other officer or member shall be approved by the president.

ARTICLE VII.

This constitution may be amended at any annual meeting by a three-fourths vote of the members present. A quorum shall consist of twenty-five per cent of the membership.

REFERENCE

1. J. Ala. Acad. Sci. 2:20. 1930.

APPENDIX III

ARTICLES OF INCORPORATION AND BYLAWS OF THE ALABAMA ACADEMY OF SCIENCE

As adopted in 1957 (1) and amended (2,3) to make it current to 1 July 1960

ARTICLES OF INCORPORATION OF THE ALABAMA ACADEMY OF SCIENCE

STATE OF ALABAMA)
)

ss.

JEFFERSON COUNTY)

KNOW ALL MEN BY THESE PRESENTS: That we, the undersigned, constituting the trustees of Alabama Academy of Science, an association heretofore unincorporated, desiring to become incorporated under the provisions of Title 10 of the 1940 Code of Alabama, do hereby file this declaration in writing, and state:

ARTICLE I. NAME

The name of this corporation shall be the Alabama Academy of Science.

ARTICLE II. OBJECTS

The objects for which the corporation is formed are:

1. To promote the development of interest in scientific matters in the State of Alabama;
2. To provide means for publication of scientific papers and abstracts;
3. To provide opportunity for increased cooperation and fellowship among its members;
4. To cooperate with other organizations having similar aims;
5. To render public service in scientific matters;
6. To promote the interest in and study of science by the youth of Alabama;
7. To provide for and award scholarships to deserving youth in Alabama;
8. The Alabama Academy of Science shall not have any capital stock, shall not pursue any of its objects or purposes for pecuniary profit to any of its members, and no part of its net receipts shall inure to the benefit of any private share-holder or individual. In the event of the dissolution of the Alabama Academy of Science, its assets will be used in the furtherance of the objectives for which the Academy was organized.

ARTICLE III. LOCATION

The office of the Academy shall be in Birmingham, Jefferson County, Alabama.

ARTICLE V. POWERS

In furtherance, but not in limitation, of the powers conferred by statute, the Academy shall have power:

1. To charge an initiation fee and membership dues to provide income sufficient to meet the needs of its activities;

2. To acquire and hold real property and personal property, stocks in business corporations, bonds and other evidences of indebtedness, to receive property by gift, will, or devise, and to hold the same in conformity with all lawful conditions imposed by the donor; to sell, lease or otherwise alienate its property and to exercise such other powers as are incident to private corporations, but not for the pecuniary gain of any member;

3. To borrow money and to secure the payment thereof by mortgage or deed of trust on all or any part of its property, real or personal or both;

4. To apply for, obtain, register, purchase, lease or otherwise to acquire, and to hold, use, own, operate and introduce, and sell, assign, or otherwise to dispose of, any trademarks, trade names, patents, inventions, improvements and processes used in connection with or secured under letters patent of the United States, or elsewhere; and to use, exercise, develop, grant licenses in respect of, or otherwise turn to account any such trademarks, patents, licenses, processes and the like, or any property or rights.

ARTICLE V. TRUSTEES

THE NAMES, post office addresses, and terms of office of the trustees are as follows:

NAME	ADDRESS	TERM
Henry L. Jennings	Title Guarantee Building, Birmingham, Alabama	3 yrs.
Arthur T. McWane	McWane Cast Iron Pipe Company, Birmingham, Alabama	3 yrs.
Carl B. Fritsche	Reichhold Chemical Company, Tuscaloosa, Alabama	2 yrs.
George R. Stuart	Birmingham-Southern College, Birmingham, Alabama	2 yrs.
Harwell G. Davis	Howard College, Birmingham, Alabama	1 yr.
James L. Kassner	University, Alabama	1 yr.

ARTICLE VI. MEMBERS

1. All members of the Alabama Academy of Science in good standing shall become members of the Corporation, and different classes of membership together with the rights and privileges of each class shall be determined by the Bylaws of the Corporation.

2. There shall be no personal, individual or other liability whatsoever on the part of any member of the Academy for the debts of the Academy or for any act or omission of the Academy or of any officer, agent or employee thereof.

ARTICLE VII. MEETINGS OF THE MEMBERSHIP

1. There shall be an annual meeting of the members of the Academy,

the time and place to be determined by the Executive Committee at least twenty days in advance.

2. Special meetings of the membership may be called by the president and he shall call such meetings on the written request of ten (10) active members.

3. Notice of all meetings of the members shall be in writing mailed to the last known address at least ten (10) days in advance of such meeting. The members present at any such meeting shall constitute a quorum for the transaction of business.

4. The rights of members to vote at meetings of the membership shall be determined by the Bylaws.

ARTICLE VIII. OFFICERS

1. The officers of the Academy shall be elected by the membership and shall be six trustees, a president, president-elect, such vice-presidents as may be determined by the membership who will act as Chairmen of the various sections, vice-chairmen for the various sections, a secretary, a treasurer, a councilor of the American Association for the Advancement of Science, an editor of the Journal, three counselors of the Junior Academy, a coordinator with Science Clubs of America, and a coordinator of Science Fairs.

2. At the close of each annual meeting the President-elect, elected at the previous annual meeting, shall become President of the Academy. A new president-elect and officers to succeed all officers whose terms of office terminate at the current annual meeting of the Academy shall be elected by a plurality of the votes of the members present at said annual meeting. The term of office for all officers shall begin at the close of the annual meeting except the Councilor of the American Association for the Advancement of Science whose term of office shall begin on January first following his election.

3. The tenure of office shall be for one year or until successor shall be elected, except that the Trustees, the Secretary, the Treasurer, the Councilor to the American Association for the Advancement of Science, the Editor, the Coordinator of Science Fairs and the three counselors of the Junior Academy, one of whom shall be elected each year to replace one whose term is expiring, shall serve three years and shall be elected triennially.

4. Vacancies on the board of officers occurring between annual meetings shall be filled in the following manner: In case the office of President shall become vacant the President-elect shall become president. In case the office of president-elect shall also become vacant the office of president shall be filled by the Executive Committee called into special session by the Secretary and/or Treasurer. Vacancies in any other offices of the Academy shall be filled by the Executive Committee convened on call of the President.

5. At the first business session of the Executive Committee, the President shall name a nominating committee to nominate officers of the Academy, including the Vice-Chairman. Each Section will suggest a nominee for Vice-Chairman.

6. The affairs of the Academy shall be managed by an executive com-

mittee which shall be composed of the elected officers together with the three immediate past presidents, the chairman of the Board of Trustees, and the chairman of standing committees authorized by the Bylaws.

7. The Executive Committee shall have power to make and alter the Bylaws of the Academy; to hold meetings at such places and at such times as shall from time to time be designated by the Bylaws or by resolution of the committee; to fix the amount of fees and dues to be collected from members and shall have such other powers, not inconsistent herewith as may be necessary to carry out the purposes of the Academy. The Bylaws may prescribe the numbers of members of the committee necessary to constitute a quorum, which number may be less than a majority of the whole number of members.

8. The Trustees shall be ex-officio members of the committee on finance for the Academy and shall take and hold title to all real property of the Corporation and shall act as custodian of all money and personal property of whatsoever kind except membership fees and dues, acquired by the Academy for purposes other than the general operating expenses thereof, in trust for the Academy, and shall disburse such money, dispose of such property, borrow money for such purposes other than the operating expenses of the Academy and make and issue notes, bills, bonds, and other evidences of indebtedness and convey by mortgage or deed or trust all or any part of the property owned, real or personal or both, by the Corporation, to secure the payment of any debts contracted by the authority of the Executive Committee; but before such mortgage or deed of trust can be executed, the majority of the Executive Committee shall have first authorized the incurring of the debt and the execution of such mortgage or deed of trust on all or part of the real or personal property, or both of the Corporation, which authorization must be made at a regular meeting or at a special meeting of the Executive Committee especially called for the purpose. And the Executive Committee at any regular meeting, or at any special meeting called for that purpose, may grant authority to the Board of Trustees to convey by mortgage or deed of trust any or all of this property, real or personal, it may then own or thereafter acquire, for the purpose of securing any debts contracted by the Trustees for the Corporation.

9. The trustees shall serve for a term of three (3) years, unless specifically elected for a lesser term, except that one-third of the Trustees first elected shall be elected to serve for one year, one third for two years, and one third for three years, respectively.

10. In case of any increases in the number of trustees, the additional trustees shall be elected as may be provided in the Bylaws and one third of their number shall be elected to serve for one year, one third for two years, and one third for three years.

11. In case of any vacancy in any class of trustees through death, resignation, disqualification or other cause, the Executive Committee, at any regular meeting, or any special meeting called for that purpose, by affirmative vote of the majority of the Committee present, may elect a successor to hold office for the unexpired term of the Trustee whose place shall be vacant and until the election of a successor.

ARTICLE IX. DURATION

The duration of the Corporation shall be perpetual.

ARTICLE X. AMENDMENTS

This certificate may be amended at any annual meeting by a three-fourths vote of the attending members.

IN WITNESS WHEREOF, This certificate has been executed by the trustees of the Corporation, acknowledged as required by Law, and offered for record in the Office of the Judge of Probate of Jefferson County, Alabama, this 27th day of May, 1947.

Signed by the following as Trustees:

Henry L. Jennings, Birmingham
Arthur T. McWane, Birmingham
Carl B. Fritsche, Tuscaloosa
George R. Stuart, Birmingham
Harwell G. Davis, Birmingham
James L. Kassner, University

BYLAWS OF THE ACADEMY OF SCIENCE

ARTICLE I. MEMBERSHIP CLASSIFICATION

1. The membership of the Academy shall consist of the following classes:

a) *Individual Members*: Individual membership of the Academy shall be open to any man or woman in the State of Alabama who is actively engaged in science, either pure or applied, and who has received a four year collegiate degree, or who has had a minimum of ten years professional or industrial experience. Two years may be deducted from this minimum of ten years for each year the individual spent in college.

b) *Associate Members*: Any adult interested in the promotion of science in Alabama who does not qualify for the grade of member shall be eligible for associate membership.

c) *Collegiate Members*: Any college student interested in the promotion of science in Alabama may qualify as a collegiate member.

d) *Junior Members*: High School seniors, whose Science Club is in full standing with the Alabama Junior Academy of Science, and who have presented a paper or exhibit before the annual meeting of the Junior Academy, may become Junior Members of the Senior Academy.

e) *Honorary Members*: Members of the Academy who have had some national honor conferred upon them shall be eligible for honorary membership. Not more than two honorary members shall be elected in any one year.

f) *Patrons*: Any person contributing One Hundred Dollars (\$100) or more to the treasury of the Academy may become a patron upon being duly elected.

g) *Life Members*: Any member of the Academy may become a life member by paying into the treasury the sum of Fifty Dollars (\$50).

h) *Fellows*: Members of the Academy who are Fellows of the Amer-

ican Association for the Advancement of Science shall be classed as Fellows of the Academy.

i) *Sustaining Members*: Individuals, organizations, or institutions may secure membership upon the minimum payment of Ten Dollars (\$10) per year.

j) *Industrial Members*: Industrial membership in the Academy of Science is open to those business firms and corporations who are interested in the advancement of science in Alabama. The dues are Twenty-five Dollars (\$25) per year. Each industrial member is entitled to designate two individuals from his organization to represent it as active members in the proceedings of the Academy.

2. Patrons, Associate Members, Junior members, and Collegiate Members shall not hold office or vote, but may present papers before the Academy without introduction.

3. No one shall be eligible for office who is in arrears in the payment of dues.

4. The opening date of the Academy's fiscal year shall be the first day of the annual meeting. Dues for new members will be credited to the current year, unless they are received during the last two months of the fiscal year, or unless the supply of copies of the Journal for that year has been exhausted.

Members in arrears with their dues for two consecutive years shall be dropped from the rolls except that members in any of the armed forces in time of war shall be excused from the payment of dues. Members so dropped, however, may be reinstated at any time upon payment of dues for the current year and one year preceding.

5. All members with the exception of Junior Members shall receive all literature issued by the Academy. No member will receive a copy of the Journal until he has paid his dues for the year of the annual meeting covered by the Journal. Moreover, unless he has paid his dues by the time the Journal goes to press, he cannot be sure of receiving a copy.

6. All applications for membership must be endorsed by at least three members in good standing, regardless of the qualifications of the applicant for membership on other grounds.

ARTICLE II. DUES

The dues for the several classes of membership shall be as follows:

1. Life Members, Fifty Dollars (\$50).
2. Individual Members, Five Dollars (\$5) per annum.
3. Associate Members, Three Dollars (\$3) per annum.
4. Junior Members, One Dollar (\$1) per annum.
5. Collegiate Members, One Dollar (\$1) per annum.
6. Sustaining Members, Ten Dollars (\$10) or more per annum.
7. Honorary Members, Patrons, none.
8. Industrial Members, Twenty-five Dollars (\$25) or more per annum.
9. Fellows, Three Dollars (\$3) per annum.

ARTICLE III. SECTIONS

1. The Academy shall have the following scientific sections:
 - I. Biological Sciences

- II. Chemistry
- III. Geology and Anthropology
- IV. Geography and Conservation
- V. Physics and Mathematics
- VI. Industry and Economics
- VII. Science Education
- VIII. The Social Sciences
- IX. Medical Sciences

2. Each Vice-President shall be Chairman of his Section. Each Vice-chairman shall act as Secretary of his Section. The Vice-chairman of each section shall become the Chairman of the Section the following year.

ARTICLE IV. COMMITTEES

Standing committees of the Academy shall be set up as indicated below and serve for the terms and purposes stated.

1. *Steering Committee*: The Steering Committee consists of the President, Past President, President-elect, Secretary and Treasurer.

2. *Committee on Membership*: This committee consists of the Vice-Chairman of the sections with the President-elect as Chairman.

3. *Committee on Research*: The committee is appointed by the President.

4. *Committee on Long Range Planning*: The Chairman retires at the end of each year, but for the purpose of continuity in planning may be reappointed by the incoming President until he has served three years.

5. *Committee on Finance*: This committee consists of eight members appointed by the President, the Chairman of which is to be a leading business man or industrialist. The chairman of the Research Committee is a member of this committee.

6. *Committee on Admission to Membership*: The Secretary shall be Chairman of this committee with the President-elect and the Councilor of the A.A.A.S. as additional members.

7. *Auditing Committees*: The President shall appoint annually two auditing committees of two members each, one for the Senior Academy and one for the Junior Academy.

8. *Editorial Board*: The Editorial Board shall consist of three members each appointed for a term of 3 years with the Editor as an additional member ex officio. The members are so appointed that only one appointment is made each year.

9. *Committee on Junior Academy*: This Committee shall consist of the Counselors of the several regions, the state officers of the Junior Academy of Science, the sponsors of the state officers of the Junior Academy, and the three Counselors elected by the Alabama Academy of Science.

10. *Committee on Place of Meeting*: The President shall appoint a committee of five, a month or more before the annual meeting.

11. *Committee on Local Arrangements*: The President shall appoint chairmen, one to serve for the Senior Academy and one to serve for the Junior Academy. Each chairman shall have the power to select members of his committee.

12. *Committee on Science Education*: This committee is appointed by the President. The Chairman and Vice-Chairman of the Science Educa-

tion Section and the Coordinator of Science Fairs are ex officio members.

13. *Committee on the Newsletter*: The President shall appoint a Chairman of the Newsletter Committee. The Chairman, in consultation with the President, shall nominate the members of his committee.

14. *Committee on Public Relations*: This committee shall be appointed by the President.

15. *Committee on Archives*: The President shall appoint a Chairman of the Committee on Archives who shall be the Archivist.

16. *Committee on Regional Science Fairs*: This committee shall consist of the state Coordinator of Science Fairs and the Regional Coordinators of the several regions.

ARTICLE V. DUTIES OF OFFICERS AND COMMITTEES

1. *Trustees*: The duties of the trustees are as enumerated in the Certificate of Incorporation. They shall have the right to hold meetings, both regular and special, at such times and places as may be convenient and at such meetings a majority of the trustees shall constitute a quorum for the transaction of any business which may come before them.

All funds of the Academy which may come into the custody of the trustees shall be carried in a separate bank account in the name of the Academy. The trustees may designate one or more of their number to sign checks drawn to such account.

2. *Executive Committee*: The duties of the Executive Committee are as set forth in the certificate of incorporation. At the first business session of the Executive Committee at the time of the annual meeting the President shall name a nominating committee to nominate officers of the Academy, including the Vice-Chairman; nominations for Vice-Chairman may be suggested by Section Chairmen.

The Executive Committee shall meet at least twice annually. The first meeting being called by the President in the fall. The second meeting shall be immediately before the annual meeting of the Academy. The Executive Committee shall consider at these meetings such business as may properly be brought before it and shall make recommendations for action by the business sessions of the entire Academy.

Special meetings of the Executive Committee may be held whenever called by a majority of the members thereof, or by the President. Timely notice of a meeting stating the time and place thereof and indicating briefly the object thereof, shall be given the members of the committee, by mail, publication, or by other suitable means whereby the notice may be conveyed. At all meetings of the Executive Committee, regular or special, the members present shall constitute a quorum for the transaction of any business which may come before it.

3. *President*: The President shall preside at the session of the Academy as a whole, and of the Executive Committee.

He shall appoint all committees except as otherwise herein provided.

He shall deliver the Presidential Address at the annual banquet at the end of his tenure of office. The text of the address shall be published in the Journal, either in full, in abstract or by title, as he desires.

4. *President-Elect*: The President-Elect shall perform the duties of the

President in the latter's absence. He shall serve as chairman of the committee on Membership.

5. *Vice-Presidents*: The Vice-Presidents shall preside as Chairmen of their respective sections and, in the absence of the President and the President-elect, at sessions mentioned in Section 2 hereof.

They in cooperation with the Vice-Chairmen shall be responsible for the planning and arranging of programs for their respective sections.

They in cooperation with the Vice-Chairmen shall endeavor to build up the membership of their respective sections.

6. *Secretary*: The Secretary shall keep the minutes of the Executive Committee and of the Academy as a whole.

He shall be responsible for the arrangements of the annual meeting, including the drawing up of the general program and the arranging of the sectional programs sent him by the Section Chairmen.

He shall keep the membership roll of the Academy, including rank, section member of the A.A.A.S., etc.

He shall act as Chairman of the Committee on Admission to Membership and shall notify applicants for membership of their selection or non-selection.

At the close of the annual meeting, he shall provide the Treasurer with a list of the members.

He shall perform such other duties as may be assigned to him by the Executive Committee.

7. *Treasurer*: The Treasurer shall be in charge of all funds of the Academy, derived from membership fees and dues, but not special funds held by the trustees, as provided in the Certificate of Incorporation. The Treasurer shall keep all funds belonging to the Academy in a separate bank account. The Treasurer is charged with the duties of sending notes relating to dues and the collection of dues.

He shall make only such disbursements as are approved by the President.

He shall check the membership roll furnished him by the Secretary for payment of dues and forward the revised roll to the Editor of the Journal.

8. *Councilor of the A.A.A.S.*: The Councilor of the A.A.A.S. shall represent the Academy on the Council of the A.A.A.S. and the Academy conference, and shall attend any other meetings of the A.A.A.S. conventions which he shall deem of interest to the Academy.

He shall report at the annual meeting on the meetings of the Council and the Academy Conference.

He shall be a member of the Committee on Admission to Membership.

9. *Editor of the Journal*: The Editor of the Journal shall publish the Journal of the Alabama Academy of Science.

He shall be a member of the Editorial Board, ex officio.

10. *Counselors of the Junior Academy*: The Counselors of the Junior Academy shall supervise the activities of the Junior Academy for the Senior Academy.

11. *Co-ordinator With Science Clubs of America*: The Co-ordinator With Science Clubs of America shall act as a liaison officer between the Academy and Science Clubs of America and also the Academy and the Gorgas Scholarship Foundation.

12. *Steering Committee*: The Steering Committee is authorized to handle routine jobs of the Academy which shall arise between Executive Committee meetings. It is responsible to the Executive Committee and is not authorized to make major decisions for the Academy.

13. *Committee on Membership*: This committee shall, through its State-wide membership, seek to secure new members, solicit Sustaining Memberships, and handle such investigations and projects as may be assigned to it by the officers or committees of the Academy.

14. *Committee on Research*: The Committee on Research shall encourage scientific research in Alabama, by whomsoever initiated and conducted, investigate possible sources of funds to be awarded by the Academy to research scientists, and make recommendations on the placing of such funds where they will be likely to be of the greatest possible use to scientific research. This Committee shall collaborate with the Committee on Long Range Planning.

15. *Committee on Long Range Planning*: It shall be their responsibility to formulate and promote long range plans for broadening and intensifying the activities of the Academy so that a maximum number of workers in its various fields shall share in and contribute to the progress and prosperity of our State.

16. *Committee on Finance*: The duties of the Committee on Finance shall be to promote the financial welfare of the Academy. The chairman of this committee shall be a member of the Long Range Planning Committee.

17. *Committee on Admission to Membership*: This committee shall examine the qualifications of the applicants for membership and assign them to the different grades of membership. They shall keep a complete and up-to-date record of the membership of the Academy.

18. *Auditing Committee*: The Auditing Committee shall examine and report to the Academy upon the financial record of the Treasurers of the Academy and the Junior Academy respectively at the meeting for which they were appointed.

19. *Editorial Board*: The Editorial Board shall concern itself with broad editorial policies and with problems of finance and shall act in a general advisory capacity to the Editor.

20. *Committee on Junior Academy*: The duties of this committee shall be to coordinate the activities of the several regions of the Junior Academy in cooperation with the Coordinator on Regional Science Fairs, to promote the organization of chapters and by all possible means promote the welfare of the chapters, the regions and the entire Junior Academy.

21. *Committee on Place of Meeting*: This committee is to make recommendations at the annual business meeting concerning the time and place for holding subsequent annual meetings.

22. *Committee on Local Arrangements*: This committee shall have the responsibility of providing for the physical needs of the Academy at its annual meeting. The chairman of the Local Arrangements Committee for the Senior Academy shall work closely with the President and the Secretary relative to all aspects of the meeting; the chairman of the Committee for the Junior Academy shall work closely with the Counselor of the Junior Academy.

23. *Committee on the Newsletter*: The Committee on the Newsletter shall prepare and forward to the members a newsletter. The newsletter shall be published at regular intervals determined by the President and the chairman of the committee. The chairman of the Committee on Newsletter shall act as editor of the newsletter.

24. *Committee on Science Education*: This committee will have as its primary function the evaluation of science education in the state at all academic levels, and the formulation of ideas to improve the present system where possible.

25. *Committee on Public Relations*: This committee shall seek adequate publicity for the meetings and work of the Academy.

26. *Committee on Archives*: The Archivist shall keep in a safe place the Archives of the Academy consisting of back numbers of the Journal, exchange publications, and records of the Academy.

27. *Committee on Regional Science Fairs*: The committee on Regional Science Fairs shall coordinate the activities of the Regional Science Fairs in cooperation with the Counselors of the Junior Academy of Science.

ARTICLE VI. PROGRAM RULES

Titles and abstracts of papers to be presented at the annual meeting of the Academy must be sent in duplicate to the Chairman of the Section in which the paper is to be presented before the date set by him. Non-members may read papers on the invitation of the respective Section Chairman.

The Section Chairman shall send one copy of the paper and the abstract to the Secretary and one to the Editor of the Journal before the final date set by them.

The program of the annual meeting shall consist of the following features:

1. Meeting of the Executive Committee;
2. First business session, at which will be heard reports, and at which committees will be appointed;
3. Second business session for reports of committees, election of officers, selection of place of next meeting, and such other business as may properly be brought before the meeting.
4. Sectional meetings which shall be held in the intervals between business sessions, or on the succeeding day, and which should not interfere with the business sessions;
5. Annual banquet on the night of the first day of the convention with Presidential Address followed by a reception;
6. Field trips of scientific interest.

ARTICLE VII. JOURNAL

The Journal of the Academy shall be published quarterly. It shall contain an account of the business transacted at the annual meeting, papers of outstanding merit, abstracts of all other papers, and such other materials as the Editor and the Editorial Board may think proper.

ARTICLE VIII. THE ALABAMA JUNIOR ACADEMY OF SCIENCE

The Academy shall sponsor the Alabama Junior Academy of Science, composed of high school science clubs.

Counselors of the Junior Academy are officers of the Academy and are elected as provided in Article VIII, Section 4, of the Articles of Incorporation.

ARTICLE IX. AMENDMENTS

The Bylaws may be amended by a plurality vote of the Executive Committee present at any meeting, or at any special meeting for that purpose.

REFERENCES

1. J. Ala. Acad. Sci. 29:105-113. 1957.
2. J. Ala. Acad. Sci. 30:43. 1958
3. J. Ala. Acad. Sci. 31:56-58. 1959.

APPENDIX IV
COMPOSITE LIST OF OFFICERS, ALABAMA ACADEMY OF SCIENCE

<i>Year</i>	<i>President</i>	<i>Secretary</i>	<i>Treasurer</i>	<i>A.A.A.S. Councilor</i>
1924-26	Wright A. Gardner	John R. Sampey	John R. Sampey	
1926-27	Stewart J. Lloyd	John R. Sampey	John R. Sampey	Wright A. Gardner
1927-28	John R. Sampey	James L. Brakefield	James L. Brakefield	Wright A. Gardner
1928-29	Walter C. Jones	James L. Brakefield	James L. Brakefield	Wright A. Gardner
1929-30	Fred Allison	James L. Brakefield	James L. Brakefield	Wright A. Gardner
1930-31	Emmett B. Carmichael	James L. Brakefield	James L. Brakefield	Emmett B. Carmichael
1931-32	George J. Fertig	James L. Brakefield	E. A. Hawks	Emmett B. Carmichael
1932-33	J. F. Duggar	Emmett B. Carmichael	A. G. Overton	Emmett B. Carmichael
1933-34	J. L. Brakefield	W. A. Whiting	A. G. Overton	Emmett B. Carmichael
1934-35	Russell S. Poor	P. H. Yancey	A. G. Overton	Emmett B. Carmichael
1935-36	A. G. Overton	Septima C. Smith	B. F. Clark	P. H. Yancey
1936-37	Walter B. Jones	Septima C. Smith	B. F. Clark	P. H. Yancey
1937-38	Roger W. Allen	Septima C. Smith	B. F. Clark	P. D. Bales
1938-39	P. H. Yancey	Septima C. Smith	John Xan	J. H. Coulliette
1939-40	George D. Palmer	Septima C. Smith	John Xan	J. H. Coulliette

1940-41	C. M. Farmer	Winnie McGlamery	John Xan	J. H. Coulliette
1941-42	Paul D. Bales	Winnie McGlamery	John Xan	Septima C. Smith
1942-43	W. M. Mobley	Winnie McGlamery	John Xan	Septima C. Smith
1943-44	E. V. Jones	Winnie McGlamery	John Xan	Septima C. Smith
1944-45	James T. Mackenzie	Winnie McGlamery	John Xan	Septima C. Smith
1945-46	J. M. Robinson	Winnie McGlamery	John Xan	Septima C. Smith
1946-47	James L. Kassner	Alan T. Wagner	Robert D. Brown	J. Paul Reynolds
1947-48	John Xan	Alan T. Wagner	Robert D. Brown	J. Paul Reynolds
1948-49	Eugene D. Emigh	Alan T. Wagner	Robert D. Brown	J. Paul Reynolds
1949-50	C. A. Basore	Alan T. Wagner	Robert D. Brown	J. Paul Reynolds
1950-51	Harold E. Wilcox	W. T. Wilks	Ralph L. Chermock	Katherine Vickery
1951-52	J. Henry Walker	W. T. Wilks	Ralph L. Chermock	Katherine Vickery
1952-53	John A. Fincher	W. T. Wilks	Ralph L. Chermock	P. H. Yancey
1953-54	Joseph F. Volker	Herbert A. McCullough	Ralph L. Chermock	P. H. Yancey
1954-55	William T. Wilks	Herbert A. McCullough	Locke White	P. H. Yancey
1955-56	Ralph Chermock	Herbert A. McCullough	Locke White	P. H. Yancey
1956-57	J. Allen Tower	Herbert A. McCullough	Locke White	P. H. Yancey
1957-58	Howard Carr	Hoyt M. Kaylor	W. J. Barrett	P. H. Yancey
1958-59	Herbert A. McCullough	Hoyt M. Kaylor	W. J. Barrett	P. H. Yancey
1959-60	Samuel B. Barker	Wilbur B. DeVall	W. J. Barrett	P. H. Yancey
1960-61	James R. Goetz	Wilbur B. DeVall	W. J. Barrett	P. H. Yancey

APPENDIX V
SUMMARY OF INCOME AND EXPENDITURES, 1927-1960

YEAR	INCOME AND ASSETS			EXPENDITURES					Total Expenditures
	DUES	OTHER INCOME	TOTAL INCOME	Journal	Junior Academy	Research	Other		
1926-27	\$ 82.80	\$ 0	\$ 82.80	0	0	0	\$ 27.00	\$ 27.00	
1927-28	41.00	10.50	51.50	0	0	0	36.25	36.25	
1928-29	65.00	14.50	79.50	0	0	0	29.50	29.50	
1929-30	164.00	0	164.00	0	0	0	40.75	40.75	
1930-31	173.00	18.00	191.00	0	0	0	50.75	50.75	
1931-32	109.00	30.91	139.91	118.40	0	0	33.20	151.60	
1932-33	154.00	31.11	185.11	56.35	0	0	112.67	169.02	
1933-34	155.00	39.25	194.25	125.75	0	0	127.29	252.54	
1934-35	243.00	56.09	288.15	320.24	7.73	0	117.70	445.67	
1935-36	244.00	48.39	292.39	119.32	2.20	0	102.81	224.33	
1936-37	290.00	0	290.00	163.16	11.00	0	74.71	248.87	
1937-38	277.80	0	277.80	141.23	5.00	0	82.39	228.62	
1938-39	301.48	0	301.48	210.99	0	0	32.64	243.63	
1939-40	347.82	25.00	372.82	214.77	16.32	25.00	91.19	347.38	
1940-41	499.50	100.00	599.50	454.28	0	50.00	16.86	531.14	
1941-42	696.03	0	696.03	425.62	0	50.00	110.71	586.33	

1942-43	597.75	0	597.75	321.01	0	35.00	40.33	396.34
1943-44	429.50	0	429.50	190.00	0	31.50	31.87	253.37
1944-45	898.00	0	898.00	327.49	0	217.66	33.59	578.74
1945-46	581.00	0	581.00	298.28	35.30	28.00	40.91	402.49
1946-47	950.00	0	950.00	87.16	50.00	525.00	140.83	802.99
1947-48	1,180.00	0	1,180.00	651.44	50.00	570.00	288.89	1560.33
1948-49	1,295.00	0	1,295.00	800.00	0	200.00	362.90	1362.90
1949-50	752.00	468.91	1,220.91	212.18	100.00	0	145.36	457.54
1950-51	758.50	295.00	1,053.50	879.96	40.00	150.00	294.60	1294.56
1951-52	1,125.31	685.00	1,811.31	0	95.49	285.00	379.30	759.79
1952-53	1,355.53	416.27	1,771.80	1019.70	207.49	541.00	332.65	2100.84
1953-54	1,842.00	290.00	2,132.00	2336.29	105.70	0	277.00	2698.99
1954-55	1,269.00	1,209.00	2,478.00	1355.74	11.75	561.75	252.11	2181.35
1955-56	1,827.00	866.00	2,693.00	1426.96	220.58	603.08	748.18	2998.80
1956-57	1,873.00	1,459.25	3,332.25	1958.18	23.63	150.00	648.00	2780.41
1957-58	1,307.00	593.00	1,900.00	1404.27	0	89.50	351.71	1845.48
1958-59	616.00	572.89	1,188.89	160.00	0	300.00	567.56	1027.56
1959-60	1,839.00	768.50	2,607.50	757.97	200.00	250.00	1183.11	2391.08

**APPENDIX VI
SUSTAINING MEMBERS OF THE**

ALABAMA ACADEMY OF SCIENCE, 1941-1960*

Alabama By-Products Corporation	1941-48
Alabama College	1942-
Alabama Department of Archives and History	1943-45
Alabama Mills, Inc.	1951-53
Alabama Power Company	1941-48**
Alabama State Chamber of Commerce	1941-55
American Cast Iron Pipe Company	1942-47**
Auburn University (Alabama Polytechnic Institute) †	1941-
Birmingham Ice and Cold Storage Company	1941-43
Birmingham Slag Company	1942-48**
Birmingham-Southern College	1941-
Birmingham Trust and Savings Company	1941-48
Birmingham Trust National Bank	1954-
Bush, Dr. J. D.	1954-57
DeBardeleben Coal Corporation	1941-46
First Farmers and Merchants Bank, Troy	1949-57
Florence State (Teachers) College †	1944-
Friedman, Dr. Louis L.	1954-57
Hendon, John Franklin	1954-
Howard College	1941-
Huntingdon College	1941-57, 1959
Jacksonville State (Teachers) College †	1942
Judson College	1942-57
Livingston State (Teachers) College †	1944-
MacKenzie, James T.	1954-57
McKesson and Robbins, Inc.	1941-47**
Portland Cement Association	1941-53
Rust, Henry B.	1955-57
Southern Natural Gas Company	1941-57
Spring Hill College	1948-
Stockham Pipe and Fittings Company	1941-53
Troy State (Teachers) College †	1941-
University of Alabama	1941-
The Vanity Department Store, Birmingham	1952-53
Woodward Iron Company	1941-48

* As listed in the *Journal* of the Academy.

**Type of membership was changed in 1947 to Industrial.

† The official names of these institutions have been changed from those in parentheses.

**APPENDIX VII
INDUSTRIAL MEMBERS OF THE**

ALABAMA ACADEMY OF SCIENCE, 1947-1960*

Alabama Power Company	1947-
American Cast Iron Pipe Company	1948-
Avondale Mills	1947-48
Bayuk Cigars, Inc.	1955-57

Birmingham Slag Company	1949-
Exchange-Security Bank	1958-
Gulf States Paper Corporation	1947-57
Lewis Cigar Manufacturing Company	1947-54
McKesson and Robbins, Inc.	1948-57
Rust Engineering Company	1947-
Tennessee Coal, Iron and Railroad Company	1947-53
W and W Pickle and Canning Company	1947-48

* As listed in the *Journal* of the Academy.

APPENDIX VIII

**SUMMARY OF KNOWN SCHOLASTIC ACHIEVEMENTS OF
FINALISTS IN GORGAS SCHOLARSHIP COMPETITION**

- 1948: Thomas A. Scott, Lynn High School: B.S., University of Pennsylvania, 1952, physics; M.S., 1953, Ph.D., 1957, Harvard University, physics.
- Harry A. Hendon, Jr., Phillips High School: B.S., Vanderbilt University, 1952, engineering.
- James L. Kassner, Jr., Tuscaloosa High School: B.S., University of Alabama, 1952, physics.
- Arvilla A. Kemp, Hueytown High School: B.S., University of Alabama, 1952, chemistry.
- Myrtle V. Turner, Parker High School: B.S., Tuskegee Institute, 1948, chemistry.
- 1949: Helen Allison, University of Alabama.
- Richard G. Hills, B.S., Massachusetts Institute of Technology, 1954, engineering.
- Thomas R. Watkins, Russellville High School: B.S., Alabama Polytechnic Institute, 1952, agronomy.
- Mary W. Crain, Hueytown High School: B.S., Birmingham-Southern College, University of Alabama, 1952, physics.
- Clarence W. Savage, Tuscaloosa High School: B.S., University of Alabama, 1953, M.S., University of Alabama, 1954; Ph.D., Cornell University, 1958.
- Hart, Central High School, Mobile: B.S., Tuskegee Institute, chemistry.
- 1953: Robert L. Martin, Jr., Phillips High School: B.S., Alabama Polytechnic Institute, 1957, physics.
- Joseph L. Wilkinson, John Carroll High School: B.S., Spring Hill College, University of Alabama, 1956, biology.
- Curtis Douglas, Centreville High School: University of Alabama.
- Jean L. Kassner, Tuscaloosa High School: University of Alabama.
- Williams, Hooper City High School: Tuskegee Institute.
- 1954: Carl R. Stringfellow, West End High School: B.S., Birmingham-Southern College, 1958, chemistry.
- Patrick N. Espy, Jackson High School: University of Alabama, physics, mathematics.

- Hoyt A. Ponder, Russellville High School: Alabama Polytechnic Institute, science.
- Nancy N. Davis, Talladega High School: University of Alabama, bacteriology.
- Gertha L. Houston, Choctaw County Training School: Tuskegee Institute, chemistry.
- 1955: Coley C. Mills, Jr., Sidney Lanier High School: University of Chicago, mathematics.
- Swafford, Murphy High School: Newcomb College, bacteriology.
- Kibbee D. Streetman, West End High School: Birmingham-Southern College, physics.
- Thomas O. White, Phillips High School: University of Alabama, physics, mathematics.
- Oliver J. Edwards, Shades Valley High School: B.S., Duke University, 1959, physics, mathematics.
- Linda Rodgers, Tuscaloosa High School: Birmingham-Southern College, chemistry.
- Evelyn Wheeler, Ensley High School: Alabama Polytechnic Institute, science.
- Raymond E. Crittenden, Ozark High School: Tuskegee Institute, chemistry.
- 1956: John T. Bagwell, Sidney Lanier High School: University of Chicago.
- Phillip W. Laney, Jr., Indian Springs High School: Yale University.
- Ferdinand Mitchell, Jr., Tuscaloosa High School: University of Alabama.
- Bruce S. Keenan, Murphy High School: University of the South.
- William B. Nickell, Indian Springs High School: Princeton University.
- Richard F. Sweet, McGill High School: Spring Hill College.
- Paul F. Helmick, Sidney Lanier High School: State College of Washington.
- Henry C. Alexander, McGill High School: Spring Hill College.
- James J. Denson, Vigor High School: Mississippi-Southern College.
- Donald E. Bayless, Coffee High School: Dartmouth College.
- John T. Daniel, Lanett High School: Alabama Polytechnic Institute.
- Barbara J. Fox, Fairfield Industrial High School: Tuskegee Institute.
- 1957: William B. Gandrud, Tuscaloosa High School: University of Alabama, engineering.
- Dwight L. Eddins, Decatur High School: University of Alabama, chemical engineering.
- Jo Ann Luker, Tuscaloosa High School: University of Alabama, premedical.
- Joan Bryant, Butler High School: Howard College, chemistry.
- Theodore J. Panaytoff, Murphy High School: Columbia University, engineering.
- Charles L. Adams, Tuscaloosa High School: University of Alabama, mechanical engineering.
- Richard Hobbie, III, Sidney Lanier High School: University of Alabama, electrical engineering.

- John L. Kelly, Vigor High School: Tulane University, chemical engineering.
- Stephen A. Scharfenberg, St. Bernard High School: University of Notre Dame, physics.
- John T. Hannon, Bessemer High School: Alabama Polytechnic Institute, electrical engineering.
- Lynn Grubbs, Hueytown High School: Alabama Polytechnic Institute, mechanical engineering.
- J. Martin O'Neil, St. Bernard High School: Belmont Abbey College, nuclear engineering.
- NEGRO CONTESTANTS:
- Daisy B. Grayson, Fairfield Industrial High School: Tuskegee Institute, biology.
- Judith E. Dearing, Tuskegee High School.
- Charity M. Boykin, Fairfield Industrial High School.
- Ruth N. Patterson, Parker High School: Miles College, elementary education.
- James H. Hill, Parker High School.
- 1958: James L. Marshall, Decatur High School: Davidson College, University of North Carolina, chemistry.
- Mark C. Smith, Woodlawn High School: Georgia Institute of Technology, electrical engineering.
- Brian P. Tunstall, Tuscaloosa High School: Massachusetts Institute of Technology.
- William C. Pope, Jr., Woodlawn High School: Alabama Polytechnic Institute, engineering, physics.
- Carlton B. Compton, Decatur High School: Massachusetts Institute of Technology, electrical engineering.
- W. A. Smith, Vigor High School: Tulane University, physics.
- J. Burwell Anders, Tuscaloosa County High School: University of Alabama, engineering.
- Charles F. Hendrix, Fayette County High School: University of Alabama, engineering.
- Anne Rodgers, Tuscaloosa County High School: Agnes Scott College, premedical.
- Henry E. Jones, Vigor High School: Tulane University.
- NEGRO CONTESTANTS:
- Marvie De Lee, Covington County Training School: Tuskegee Institute, chemistry.
- Aubrey McAlpin, Fairfield Industrial High School: Tuskegee Institute, science.
- Cleo Dees, Camden Academy: Morehouse College, chemistry.
- Helen Glynn Shores, Parker High School: Fisk University, biology.
- Julia Rumph, Fairfield Industrial High School: Alabama State College, science.
- 1959: Paul N. Kirk, Sidney Lanier High School: Princeton University, physics, mathematics.
- Charles M. Chambers, Huntsville High School: University of Alabama, electrical engineering.

Gordon S. Johnson, Decatur High School: University of Indiana, biology.

George C. Kinzer, Demopolis High School: Auburn University, physics.
Alvin D. Moore, Shades Valley High School: University of Alabama, aeronautical engineering.

Erle D. Murphey, Jr., Shades Valley High School: (now serving with the United States Army).

Joseph W. Lewis, Jr., Phillips High School: Birmingham-Southern College, pre-medical.

Robert L. Balisok, Huntsville High School: University of California, biophysics.

Laurence H. Pierce, Robert E. Lee High School: Huntingdon College, engineering.

Glenn J. Ahrenholz, Tuscaloosa High School: University of Alabama, civil engineering.

Virginia L. Johnston, Ramsay High School: Howard College, pre-medical.

William S. Jordan, Fairhope High School: Vanderbilt University, pre-medical.

NEGRO CONTESTANTS:

Lillian R. Boykin, Fairfield Industrial High School: Tuskegee Institute, biology.

Willie T. Anderson, Fairfield Industrial High School: (Now serving with the United States Army).

Myranell J. Green, Parker High School: Michigan State University, medical technology.

1960: Bowrom F. Hale, West End High School: Massachusetts Institute of Technology, physics and mathematics.

Eleanor Ann Fagerstrom, Theodore High School: Spring Hill College, physics.

Ben Lee Damsky, Decatur High School: Princeton University, physics.

Richard T. Troutner, Decatur High School: Missouri School of Minerals, physics and mathematics.

John M. Cromwell, Murphy High School: Georgia Institute of Technology, electrical engineering.

William P. Cargile, Sidney Lanier High School: Princeton University, physics.

William H. Butler, Fayette County High School: Auburn University, physics.

Marshall Miller, Woodlawn High School: Harvard University, European history and modern languages.

Mark S. Habercom, Decatur High School: Duke University, chemistry.

Horace R. White, Jr., Sylacauga High School: Yale University, pre-medical

NEGRO CONTESTANTS:

Warren Graves, Parker High School: Tuskegee Institute, physical chemistry.

Ed Bernard Massey, Jr., Westfield High School: Tuskegee Institute, physics.

A HISTORY OF THE
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OF SCIENCE

Edited

by

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Auburn, Alabama

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