

SPECIAL APPROPRIATION H.B. # 20

126	Stanley Reichert	187.94
127	Stanley Reichert	234.63
128	E. V. Reinhardt	188.76
129	E. V. Reinhardt	177.78
130	W. M. Richtmann	301.71
131	W. M. Richtmann	348.15
132	John G. Roeschlaub	100.00
133	W. E. Roloff	282.20
134	W. E. Roloff	348.15
135	F. K. Sabott	177.19
136	F. K. Sabott	209.63
137	G. W. Salsar	353.41
138	G. E. Schade	226.94
139	Harlan E. Short	201.96
140	Harlan E. Short	296.29
141	M. I. Signer	419.50
142	W. D. Slocum	194.44
143	F. E., Jr. Sailey	167.54
144	F. E., Jr. Sailey	362.30
145	Fred T. Smith	211.95
146	Harvey W. Smith	198.13
147	Morton C. Smith	241.67
148	Morton C. Smith	288.88
149	Sigmund Smith	210.03
150	Sigmund Smith	133.33
151	Gladys W. Sparr	189.61
152	Charles W. Starks	219.11
153	Gurnett Steinhauer	398.95
154	W. Allan Stewart	159.71
155	W. Allan Stewart	352.65
156	H. E. Stommel	198.74
157	H. E. Stommel	229.63
158	A. B. Van Tine	220.49
159	P. H. Van Tuyl	350.45
160	Warren H. Wagner	248.72
161	Warren H. Wagner	162.50
162	L. S. Ward	294.82
163	L. W. Ward	425.00
164	A. P. Wichmann	266.31
165	A. P. Wichmann	296.29
166	Virginia Lee Wilcox	163.10
167	C. E. Wilkinson	226.94
168	Art Williams	223.62
169	Ralph A. Yappel	174.56
170	Ralph A. Yappel	<u>207.41</u>

TOTAL FACULTY PAYROLL

\$43,097.13

August 13, 1948

CIVIL SERVICE

171	Dolores J. Alderman	130.02
172	George S. Atkinson	135.10
173	C. A. Bacon	127.72
174	W. F. Bridges	146.60
175	Harold V. Horbeck	145.32
176	Irene L. Brown	139.15
177	Engra M. Childers	148.21
178	J. L. Cooper	131.60
179	David H. Davison	144.75
180	Carson L. Doss	273.80
181	Sterling L. Dryden	125.45
182	Ann M. Dukes	151.50
183	Mary M. Eakin	108.60
184	O. L. Freeman	154.40
185	W. H. Fromhart	122.20
186	Bert F. Harrison	135.55
187	Louis J. Hartmann	130.27
188	Doris Parks Haynes	130.81
189	C. G. Hemberger	208.04
190	J. J. Hemberger	190.00
191	Chester P. Herr	125.45
192	Violet K. Horning	147.59
193	Clifford Jewett	28.95
194	Earl L. Johnson	154.40
195	Edward A. Johnson	36.42
196	Edward Lange	142.17
197	William Lee	139.22
198	Donald Ljungvall	122.20
199	Fred Ljungvall	152.50
200	George T. Naughan	130.27
201	G. F. Naughan	165.60
202	Chris Mester	138.65
203	Lois K. Note	134.72
204	Clarence Nicholls	206.44
205	H. F. O'Neil	165.19
206	John W. Pickthall	216.90
207	Jacob T. Pyle	126.87
208	James R. Rich	134.25
209	Robert H. Richards	152.40
210	Elinor C. Ryan	139.77
211	Ruth H. Sackett	123.17
212	Albert E. Simpson	144.99
213	James L. Simpson	114.35
214	James Smith	179.40
215	Mary C. Son	162.31
216	Leslie B. Talbert	132.65
217	William F. Tobin	183.77
218	Hedeline K. Toman	52.27
219	Louise M. Walters	125.50
220	A. G. Webster	143.40
221	Mary M. Wilkerson	<u>138.41</u>

CIVIL SERVICE PAYROLL TOTAL

87,239.27

MISCELLANEOUS

222	Ronald Soumer	110.30
223	Stanley Bittle	39.00
224	Jack Bittle	155.63
225	Dorothea H. Browning	131.50
226	Martha A. Burger	54.19
227	George H. Carns	118.90
228	Betty J. Dronen	135.40
229	Mildred Earl	99.35
230	Leland Freeman	96.50
231	H. E. Gundersen	50.00
232	Merle J. Graves	118.90
233	Gloria R. Hendry	135.40
234	Oscar Johnson	29.26
235	Robert Kelly	102.00
236	Laurene King	122.70
237	Hewena V. King	122.70
238	Duane G. LeRoy	103.70
239	Charles Marchand	160.00
240	Maurice C. Nelson	118.90
241	Merilyn J. Pierce	96.30
242	Dorothy J. Prouse	120.30
243	Stanley Ratajczyk	130.00
244	Rose Marie Rowe	125.70
245	Nelda Sandidge	56.13
246	Charles Shelly	110.30
247	Gustaf F. Stalgren	174.20
248	Myrtle E. Stephens	139.80
249	Mona Stern	52.95
250	Charles B. Thomas	130.00
251	Henry J. Von Wyl	200.00
252	Joyce Warfel	135.10
253	Betty Jean Weagar	135.40
254	Jacqueline Williams	<u>61.40</u>

TOTAL MISCELLANEOUS PAYROLL

\$3,671.91

STUDENT HELP

255	Robert Barnhill	11.00
256	Stephen Booth, Jr.	4.00
257	Kenneth C., Jr. Bowman	18.00
258	Lynn A. Brown	10.00
259	Dave Childers	18.00
260	Warren S. Dronen	3.00
261	A. S. Falcone	23.25
262	Elwyn W. Fogelberg	54.50
263	Robert L. Foster	4.00
264	Ross A. Harris	10.50
265	Shigeo Hayashi	61.00
266	J. R. Hyland	13.50

August 13, 1948

267	Herbert McFall	6.00
268	Jesse R. Medaris	7.00
270	John D. Mitilineos	15.00
269	Jesse R. Medaris	6.00
271	John J., Jr. Haugle	3.25
272	John V. Newhouser	30.00
273	Leonard E. Olds	43.50
274	William H. Penney	6.00
275	Herman T. Schassberger	4.00
276	Norman E. Smith	30.00
277	Hsu Shun-Shing	12.75
278	Joseph Siegelman	16.00
279	Larry R. Toman	77.10
280	R. W. Vinnedge	32.50
281	Russell L. Wood	<u>4.00</u>

TOTAL STUDENT HELP

\$522.85

4	Withholding Tax Account	5,195.80
5	Public Emp. Retirement Fund	1,336.60
6	Colorado Hospital Service	367.25
7	Civil Service Emp. Insurance	18.95
8	War Bond Account	<u>276.63</u>

7,195.23

TOTAL PAYROLL

\$61,896.32

EXPERIMENTAL PLANT

107	Clair E. Dillon	169.56
108	Donald Dillon	41.60
109	R. B. Edredge	200.14
110	Samuel Gamble	159.51
111	H. F. Lunt	236.34
112	Emmitt R. Maddox	139.92
113	Consuelo A. Owens	141.20
114	A. J. Weinig	<u>360.70</u>

TOTAL EXPERIMENTAL PLANT PAYROLL

\$1448.97

65	Withholding Tax Account	98.70
66	Public Employee's Retirement Fund	48.13
67	Colorado Hospital Service	<u>23.10</u>

TOTAL EXPERIMENTAL PLANT PAYROLL

\$ 169.93

MILL LEVY BUILDING FUND

16	McCarty, Johnson P & H Co.	81,328.06
17	Newstrom-Davis & Co.	6,183.86
18	Scott Bros. Electric Co.	<u>797.73</u>

TOTAL MILL LEVY BUILDING FUND

\$88,309.65

SCHOOL OF MINES TAX FUND

SUPPLY VOUCHERS

1881	State Emp. Retirement Fund	1,246.28
1882	ABC Auto and Truck Rental Co.	839.18
1883	Owen F. Acers, c/o 1st Nat'l Bank	729.68
1884	Addressograph Multigraph Corp.	5.53
1885	Amer. Assn. Colleg. Registrar	10.00
1886	Assembly Products	47.88
1887	Autrey Bros.	498.25
1888	Clark F. Barb	84.20
1889	Clark F. Barb	39.75
1890	Baur's	89.34
1891	Fred K. Baxter & Co.	23.50
1892	Bernstein Bros.	84.88
1893	British Information Services	12.80
1894	Brunswick-Balke-Collender	89.72
1895	Bldg. and Maintenance Co.	208.00
1896	Wm. V. Burger	14.99
1897	Calif. Wiping Material Co.	166.04
1898	The Carborundum Co.	356.00
1899	Caldwell Blue Print & Supply Co.	2,118.69
1900	Robert H. Carpenter	115.17
1901	Carson Hotel Supply Division	101.65
1902	Centennial School Supply Co.	37.60
1903	Central Scientific Co.	1,121.78
1904	The Chemical Sales Co.	5.50
1905	Frank Cimaglia	13.00
1906	Codding Bros., Inc.	11.55
1907	Colorado Central Power Co.	828.98
1908	Colorado National Guard	100.00
1909	Colorado Photo-litho Co.	12.00
1910	Colorado & Southern R. R. Co.	62.74
1911	Continental Oil Co.	194.24
1912	Coors Porcelain Co.	27.84
1913	Craig-Frederick Chevrolet Co.	85.95
1914	H. M. Crain	58.19
1915	Crane-O'Fallon	32.75
1916	Laurence Criley	105.00
1917	V. H. Crosser	16.50
1918	Davison-Koch Furniture Co.	378.90
1919	L. W. Deffenbaugh's Lumber Co.	66.73
1920	Denver Blue-Print Co.	1,668.57
1921	Denver Bookbinding Co.	299.41
1922	Denver Fire Clay Co.	3,441.67
1923	Denver-Salt Lake-Pacific Stages	177.60
1924	Denver Towel Supply	13.72
1925	Clair Dillen	10.00
1926	E.I. DuPont De Nemours & Co.	22.68
1927	Engineering Index, Inc.	50.00
1928	Enterprise Electric Co.	44.42
1929	Enrique G. Esnard	21.53

School of Mines Tax Fund

1930	Edward G. Fisher	12.32
1931	M. L. Foss	63.92
1932	Frankel Carbon & Ribbon Co.	24.00
1933	Freaser Thomas Agency, Inc.	612.61
1934	Gaylord Bros., Inc.	6.00
1935	General Chemistry Division	273.80
1936	General Radio Co.	214.48
1937	Golden Welding Co.	189.50
1938	Denver Post	30.00
1939	Gump Glass Co.	8.32
1940	Hamilton Equipment Co.	50.17
1941	Julius A. Herren	182.96
1942	C. G. Hemberger	9.10
1943	Hendrie & Bolthoff Co.	195.84
1944	Herbach & Rademan	138.00
1945	Holland Furnace Co.	15.00
1946	Richard B. Hohl	38.26
1947	Charles H. Hull	83.85
1948	Huntington Laboratories, Inc.	124.50
1949	Hutcheson & Massey	2,204.50
1950	Ideal Laundry	40.84
1951	Ingersoll-Rand	450.00
1952	Inter-State	55.03
1953	Joslyn Builders Supplies	16.89
1954	John Karasigios	94.85
1955	John J. Kelley	30.48
1956	Kendrick-Bellamy Co.	1,994.05
1957	King Investment Co. & Lumber	16.95
1958	Kistler's	455.89
1959	Jim Kite's Service Station	72.00
1960	Kohler McLister Paint Co.	88.32
1961	Hans L. Landay	148.00
1962	Eugene H. Leaver	16.71
1963	William Lee	10.00
1964	L. W. Leroy	38.12
1965	Linde Air Products Co.	1.42
1966	Linder Hardware	224.04
1967	A. H. Lindley, Jr.	104.04
1968	Marchant Calculating Mach. Co.	18.00
1969	Meyer Hardware & Sporting Goods	23.66
1970	Midwest Terrazo Co.	1,850.10
1971	Mine and Smelter Co.	481.82
1972	Mts. & Plain Paint Co.	18.01
1973	Mt. States Tele. & Tele. Co.	351.63
1974	R. L. Neal	28.49
1975	Nock and Carside Elevator	331.00
1976	Leonard E. Olds	65.25
1977	Ben H. Parker	149.29
1978	Phillips Petroleum Co.	11.25
1979	Plasticrafts Co.	27.25

SCHOOL OF MINES TAX FUND

1980	Public Service of Colorado	148.26
1981	Pueblo Hardware Co.	189.32
1982	Pueblo Tent and Awning Co., Inc.	2,405.40
1983	Albert I. Quist	17.90
1984	Remington Rand, Inc.	126.96
1985	Revolving Fund, CSM	332.04
1986	Robinson's Book Store	722.62
1987	Rocky Mt. Bank Note Co.	5.50
1988	Rocky Mt. Instrument Co.	14.50
1989	Chester C. Rogers	22.00
1990	Roy and Syd's Service	109.86
1991	E. H. Sargent & Co.	261.65
1992	Schloss & Shubart	1,268.60
1993	South Denver Coal Co.	317.12
1994	Rio Grande Motor Way, Inc.	27.15
1995	Sachs-Lawler	82.93
1996	Sanitary Specialities	928.75
1997	Sigmund Smith	13.15
1998	Gurnett Steinhauer	6.21
1999	Walter A. Stewart	95.00
2000	Swena Transfer & Express	192.79
2001	William F. Tobin	14.25
2002	The Todd Company	244.96
2003	W. Harold Tomlison, Jr.	20.00
2004	Underwood Corporation	23.81
2005	University of Colorado	11.30
2006	Mrs. F. M. Van Tuyl	6.00
2007	Viner Chevrolet Co.	36.00
2008	Warren Wagner	72.60
2009	W. M. Welch Manufacturing Co.	46.10
2009	John Wiley and Sons	6.10
2011	Wilkins-Anderson Co.	881.32

TOTAL SUPPLY VOUCHERS

\$26,113.04

ATHLETIC ASSOCIATION FUND

0224	Athletic Ass'n Revolving Fund	42.87
0225	Autrey Brothers	32.18
0226	Harold Brobeck	5.00
0227	Continental Athletic Supply	150.25
0228	Davison-Koch Furniture Co.	21.45
0229	Dale Dean	13.85
0230	Gouger & Todd	50.95
0231	Jimmie's Shoe Store	24.65
0232	Paramount Cleaners	50.55
0233	H. W. Rodda	1.75

TOTAL ATHLETIC ASSOCIATION FUND

\$ 393.50

No other business was transacted at this meeting.

Secretary

Golden, Colorado
September 7, 1948

The Board of Trustees met in special session on September 7, 1948, at 12 M. at the University Club, Denver, Colorado. This meeting was called to supplant the regular meeting scheduled for September 10, 1948.

Present: Messrs. Bowen, Harrison, Thomas, and Vanderwilt.

Absent: No members.

President Parker and Mr. Steinhauer attended the meeting.

The minutes of the regular meeting of July 9, 1948, were read and approved.

The action of Mr. Thomas and Dr. Vanderwilt in approving and signing of vouchers as recorded in the memorandum of the informal meeting held on August 13, 1948, was ratified and approved.

Bills against the COLORADO SCHOOL OF MINES SPECIAL APPROPRIATION - HOUSE BILL NO. 20 - 1947, the SCHOOL OF MINES TAX FUND, the EXPERIMENTAL PLANT FUND, the MILL LEVY BUILDING FUND, the INDUSTRIAL DEVELOPMENT RESEARCH FUND, and the ATHLETIC ASSOCIATION FUND were read, audited, and allowed as follows:

COLORADO SCHOOL OF MINES
SPECIAL APPROPRIATION
HOUSE BILL NO. 20 - 1947

FACULTY

282	William C. Aitkenhead	\$344.30
283	T. F. Anderson	155.00
284	Wilburn F. Anderson	232.60
285	James L. Atteberry, Jr.	297.98
286	Henry A. Babcock	204.47
287	Henry A. Babcock	324.83
288	James O. Ball	379.65
289	Clark F. Barb	361.75
290	Victor W. Bauffman	224.54
291	Robert A. Baxter	230.51
292	Robert A. Baxter	473.03
293	Bernice Bowen	250.45
294	Fritz S. Brennecke	349.56
295	John Brummel	198.46
296	Arthur W. Buell	196.86
297	Arthur W. Buell	258.23
298	H. Dean Burdick	197.93
299	H. Dean Burdick	367.41

September 7, 1948

300	Wm. V. Burger	294.71
301	Frank R. Campbell	253.12
302	C. B. Carpenter	372.20
303	F. M. Carpenter	205.81
304	F. M. Carpenter	401.85
305	Robert H. Carpenter	214.01
306	Robert H. Carpenter	298.77
307	William J. Chapisis	225.15
308	J. J. Chapman	148.60
309	Franklin F. Clark	183.24
310	Franklin F. Clark	324.92
311	John W. Coke	215.63
312	John W. Coke	436.29
313	William A. Colburn	199.92
314	Robert H. Colley	35.11
315	George S. Cook	211.84
316	George S. Cook	424.81
317	M.F. Coolbaugh	457.00
318	H. B. Corbin	291.45
319	H. M. Crain	388.29
320	W. B. Cramer	323.75
321	H. C. Davidson	242.76
322	J. F. Dempsey	69.15
323	W. H. Dumke	179.97
324	W. H. Dumke	378.89
325	A. K. Erickson	178.39
326	A. K. Erickson	264.63
327	James R. Everett	227.01
328	James R. Everett	528.15
329	E. G. Fisher	250.83

TOTAL SPECIAL APPROPRIATION H.B.#20

13,273.61

SCHOOL OF MINES TAX FUND
FACULTY

2013	E. G. Fisher	158.41
2014	E. G. Fisher	221.26
2015	Delton D. Flanders	184.46
2016	Delton D. Flanders	321.48
2017	H. E. Fletcher	198.10
2018	H. E. Fletcher	413.33
2019	Marvin C. Gardels	156.16
2020	Marvin C. Gardels	321.48
2021	Hugo S. Geissler	238.83
2022	Donald C. Gregg	159.56
2023	Donald C. Gregg	321.48
2024	L. W. Hartkemeier	230.06
2025	L. W. Hartkemeier	459.26
2026	Ivan L. Hebel	246.41
2027	Ivan L. Hebel	539.63
2028	C. A. Helland	351.43
2029	George W. Heim	206.76
2030	R. B. Hohlt	182.38

2031	Ralph C. Holmer	224.54
2032	W. W. Howe	233.17
2033	W. W. Howe	480.41
2034	Mary E. Hoyt	206.45
2035	E. B. Jacobs	176.31
2036	E. B. Jacobs	347.31
2037	Ray Jenkins	198.78
2038	Ray Jenkins	273.17
2039	George W. Johnson	172.64
2040	George W. Johnson	294.14
2041	J. H. Johnson	320.06
2042	H. R. Johnson	208.79
2043	D. C. Johnston	281.95
2044	William H. Journey	319.41
2045	John H. Karamigios	160.96
2046	Paul H. Keating	232.47
2047	J. J. Kelley	318.17
2048	T. A. Kelly	222.79
2049	T. A. Kelly	401.22
2050	Harry E. Kelsey	272.85
2051	T. H. Kuhn	255.35
2052	T. H. Kuhn	332.92
2053	John W. Lantow	206.76
2054	R. H. Leaver	183.45
2055	George W. LeMaire	168.27
2056	George W. LeMaire	378.89
2057	Leslie W. LeRoy	317.85
2058	Wm. S. Levings	203.08
2059	A. H. Lindley, JR.	156.26
2060	A. H. Lindley, JR.	286.46
2061	C. W. Livingston	302.91
2062	V. Allan Long	248.61
2063	V. Allan Long	528.15
2064	T. B. McPherson	194.29
2065	T. B. McPherson	304.37
2066	Warren J. Mason	167.49
2067	Warren J. Mason	324.92
2068	W. D. Matear	193.20
2069	W. D. Matear	413.33
2070	G. T. Meredith	289.80
2071	D. F. Morse	203.43
2072	Wm. H. Mueller	151.87
2073	Robert B. Osborn	222.41
2074	Robert B. Osborn	401.85
2075	Ben H. Parker	617.78
2076	T. E. Faynter	263.51
2077	Robert T. Phelps	217.77
2078	Robert T. Phelps	447.78
2079	A. L. Fierce	209.55
2080	H. D. Freston	230.05
2081	H. D. Freston	281.71
2082	A. L. Rae	256.50
2083	Stanley Reichert	174.94

SCHOOL OF MINES TAX

2084	Stanley Reichert	324.92
2085	E. V. Reinhardt	259.25
2086	W. H. Richtmann	271.91
2087	W. H. Reichtmann	539.63
2088	John C. Reeschlaub	279.60
2089	W. E. Roloff	252.40
2090	W. E. Roloff	539.63
2091	F. K. Sabott	159.19
2092	F. K. Sabott	324.92
2093	G. W. Salzer	353.41
2094	G. E. Schade	226.94
2095	Harlan B. Short	178.00
2096	Harlan B. Short	459.26
2097	K. I. Signer	419.50
2098	W. D. Slocum	289.79
2099	F. E., Jr. Smiley	186.94
2100	F. E., Jr. Smiley	245.42
2101	Fred T. Smith	211.95
2102	Harvey W. Smith	198.13
2103	Horton C. Smith	217.77
2104	Horton C. Smith	447.70
2105	Sigmond Smith	170.63
2106	Sigmond Smith	386.66
2107	Gladys Sparr	169.61
2108	Charles W. Starks	219.11
2109	Gurnett Steinhauer	398.95
2110	W. Alan Stewart	177.61
2111	W. Alan Stewart	239.02
2112	H. E. Stommel	179.34
2113	H. E. Stommel	355.92
2114	Helen B. Traver	161.35
2115	Arthur B. Van Tine	210.39
2116	P. W. Van Tyl	353.45
2117	Warren R. Wagner	273.52
2118	L. S. Ward	272.34
2119	L. S. Ward	585.55
2120	A. P. Wichmann	242.41
2121	A. P. Wichmann	459.26
2122	Virginia Lee Wilcox	163.10
2123	Clarence E. Wilkinson	226.94
2124	Art Williams	223.62
2125	Ralph A. Yappel	159.56
2126	Ralph A. Yappel	321.48

TOTAL SCHOOL OF MINES TAX FUND
TOTAL FACULTY PAYROLL

31,827.80
45,101.41

SCHOOL OF MINES TAX FUND
CIVIL SERVICE

2127	Dolores J. Alderman	130.02
2128	George S. Atkinson	135.10
2129	C. A. Bacon	127.72
2130	W. F. Bridges	146.60
2131	Harold V. Brobeck	145.32
2132	Irene L. Brown	147.62
2133	Engra M. Childers	140.21
2134	J. L. Cooper	122.4
2135	David H. Davison	144.75
2136	Carson L. Doss	273.00
2137	Sterling L. Dryden	125.45
2138	Ann H. Dukes	151.50
2139	W. H. Fromhart	30.50
2140	Bert F. Harrison	135.55
2141	L. J. Hartmann	130.27
2142	Doris F. Haynes	138.95
2143	C. G. Hemberger	208.04
2144	J. J. Hemberger	190.00
2145	Chester F. Herr	125.45
2146	Violet K. Herning	147.59
2147	Earl L. Johnson	154.40
2148	Edward Lange	142.17
2149	William Lee	139.22
2150	Donald Ljungvall	113.87
2151	Fred Ljungvall	152.50
2152	George T. Maughan	130.27
2153	G. F. Maughan	165.60
2154	Chris Mester	138.65
2155	Lois E. Mote	134.72
2156	Clarence Nicholls	206.44
2157	M. F. O'neil	165.19
2158	John W. Pickthall	216.90
2159	Jacob T. Pyle	126.67
2160	James R. Rich	134.25
2161	Robert H. Richards	152.40
2162	Klinor C. Ryan	139.77
2163	Ruth E. Sackett	123.17
2164	A. E. Simpson	144.99
2165	James L. Simpson	122.20
2166	James Smith	179.40
2167	Mary C. Son	162.31
2168	Gustaf F. Stalgren	120.45
2169	Myrtle H. Stephens	129.72
2170	Leslie B. Talbert	132.65
2171	William F. Tobin	183.77
2172	Louise W. Waters	130.50
2173	A. G. Webster	143.40
2174	Mary N. Wilkerson	138.41

CIVIL SERVICE PAYROLL TOTAL

7,028.77

MISCELLANEOUS

2175	Arlene Bench	52.50
2176	Ronald Beumer	67.90
2177	Jack Bittle	118.90
2178	Stanley Bittle	114.30
2179	Dorothea M. Browing	131.50
2180	Patricia Campbell	132.25
2181	George H. Carns	118.90
2182	Mildred Earl	135.40
2183	Leola Freeman	114.30
2184	Merle J. Graves	118.90
2185	Kathleen Jacobs	45.00
2186	Edward A. Johnson	43.33
2187	Cesar Johnson	62.00
2188	Robert Kelly	100.00
2189	Laurene King	117.90
2190	Rowena V. King	128.10
2191	Duane C. LeRoy	114.30
2192	Charles Marchand	160.00
2193	Sylvania M. Middleton	28.50
2194	Maurice C. Nelson	118.90
2195	Marilyn J. Pierce	45.60
2196	Dorothy J. Prouse	120.15
2197-	Stanley Rataczk	130.00
2198	Kenneth Robinson	79.87
2199	Rose Marie Rowe	130.50
2200	Helda Sandidge	139.00
2201	Charles Shelly	114.30
2202	Charles S. Thomas	130.00
2203	Henry VonWyl	200.00
2204	Joyce Warfel	135.10

TOTAL MISCELLANEOUS

3,274.20

STUDENT HELP

2205	Lyle W. Baird	27.25
2206	Jack Bennett	20.00
2207	D. H. Bingham	20.00
2208	David Childers	16.00
2209	Warren J. Dronen	12.00
2210	Ross A. Harris	23.50
2211	Shun Sheng Hsu	39.00
2212	H. C. McFall	15.00
2213	Jesse H. Medaris	10.50
2214	John D. Mitilineos	10.00
2215	William H. Penney	16.50
2216	Wm. G. Robinson	27.75
2217	David A. Rowland	17.50
2218	Jack G. Sutton	21.50
2219	Russell L. Wood	7.50

TOTAL STUDENT HELP

284.00

SCHOOL OF MINES TAX FUND

2015	Withholding Tax Account	5,528.88	
2016	Public Emp. Retirement Fund	1,316.58	
2017	Colorado Hospital Service	388.60	
2018	Civil Serv. Emp. Assn. Ins.	18.95	
2019	War Bond Account	276.63	
	TOTAL PAYROLL		<u>7,529.64</u> 63,218.02

EXPERIMENTAL PLANT

115	Clair E. Dillon	175.60	
116	R. B. Eldredge	200.14	
117	Samuel Gamble	159.51	
118	H. F. Lunt	236.34	
119	Emmitt R. Maddox	139.92	
120	Gonzuelo A. Owens	141.20	
121	A. J. Weinig	360.70	
	TOTAL EXPERIMENTAL PLANT		1,413.41

69	Withholding Tax Account	99.90	
70	Public Employee's Retirement	48.39	
71	Colorado Hospital Service	23.10	
	TOTAL EXPERIMENTAL PLANT PAYROLL		<u>171.39</u> 1,584.80

MILL LEVY BUILDING FUND

19	Newstrom-Davis & Company	10,791.83	
	TOTAL MILL LEVY BUILDING FUND		10,791.83

SUPPLY VOUCHERS

2020	State Emp. Retirement Fund	1,221.77
2021	ABC Auto and Truck Rental Co.	341.92
2022	Cwen F. Acers	1,699.24
2023	Addressograph-Multigraph Co.	36.23
2024	Allis-Chalmers Manu. Co.	901.80
2025	American Zinc, Lead & Smelting Co.	18.00
2026	Wilburn F. Anderson	1.82
2027	Jan. L. Atteberry, Jr.	5.74
2028	American Council on Education	22.50
2029	J. Bishop Co.	9.09
2030	Paul Bonkop, Inc.	20.10
2031	Irene L. Brown	1.82
2032	Buehler, Ltd.	105.37
2033	Burrell Technical Supply Co.	154.25
2034	Butler Paper Co.	696.50
2035	Carpenter Paper Company	85.50
2036	Robert H. Carpenter	438.35
2037	Carson Bros.	747.33
2038	Carson Hotel Supply Division	42.00

SCHOOL OF MINES TAX FUND

2039	Centennial School Supply Co.	324.60
2040	The Central Electric Supply Co.	78.21
2041	Central Scientific Co.	29.87
2042	Cocks-Clark Engraving Co.	8.94
2043	Colorado Central Power Co.	1,479.70
2044	Colorado National Guard	100.00
2045	Cole. & South. Railway Co.	17.38
2046	Colorado Transcript	22.25
2047	Continental Investment Co.	5.00
2048	Continental Oil Co.	478.95
2049	Cora Porcelain Co.	12.68
2050	Craig-Frederick Chevrolet Co.	124.03
2051	H. M. Crain	62.80
2052	Crucible Steel Company	7.68
2053	Denver-Salt Lake Pacific Stages	125.05
2054	Denver Towel Supply Co.	4.48
2055	Calir Dillon	10.00
2056	E. I. DuPont De Nemours & Co.	22.30
2057	Denver Fire Clay Co.	1,029.52
2058	Carson L. Boss	9.10
2059	Duvall Davison Lumber Co.	253.33
2060	Eastman Kodak Stores	115.78
2061	Electro Sales Company	225.00
2062	Ellis Store	35.70
2063	Federal Storage Co.	15.70
2064	Edward G. Fisher	5.32
2065	Fisher Scientific Co.	53.67
2066	Foot Mineral Co.	5.40
2067	Foss Drug Co.	117.07
2068	H.L. Foss Inc.	146.89
2069	Frankel Carbon and Ribbon Co.	27.60
2070	Fraser-Thomas Agency, Inc.	49.19
2071	Gates Factory Stores, Inc.	10.35
2072	General Radio Co.	322.50
2073	City of Golden	10.00
2074	Golden Furniture Company	6.20
2075	Golden Motors	57.46
2076	Golden Welding Shop	311.55
2077	General Chemical Division	56.31
2078	Harshaw Scientific	25.20
2079	Heath Co.	34.90
2080	Heiland Research Corp.	2.36
2081	Hendrie and Bolthoff	83.66
2082	G. P. Hoeckel Blank Book Co.	57.62
2083	Richard B. Hehit	142.75
2084	House of Plastics	12.00
2085	Ideal Laundry	17.24
2086	International Harvester Co.	1,782.37
2087	International Industry Yearbook	8.00
2088	Interstate	69.23
2089	Richard Ives Co.	93.05

SCHOOL OF MINES TAX FUND

2090	George W. Johnson	3.50
2091	Johnson Supply Co.	22.42
2092	Kendrick-Bellamy Co.	224.54
2093	Kistler's	26.30
2094	Truman H. Kuhn	206.98
2095	Robert L. Lahn	74.00
2096	Hans Landay	10.50
2097	Eugene Leaver	19.27
2098	William Lee	10.00
2099	Liquid Carbonic Corp.	2.60
2100	Linde Air Products	18.35
2101	Linder Hardware	22.09
2102	Luby's Auto and Truck Leasing Co.	704.43
2103	C. G. MacDermid Co.	80.51
2104	Majestic Wax Co.	73.75
2105	Ernie Malovich	814.62
2106	Mapleton House	17.00
2107	Marchant Machine Co.	40.83
2108	Mine Safety Appliance Co.	88.00
2109	Mine and Smelter Co.	3,839.05
2110	Mineralist	2.00
2111	Mixing Equipment Co., Inc.	65.50
2112	Montgomery Ward & Co.	51.00
2113	Moody's Investors Service	52.00
2114	Nt. Ice and Coal Co.	20.33
2115	Nt. & Plain Paint Co.	19.52
2116	Nt. States Tele. & Tele. Co.	361.75
2117	National Cash Register Co.	10.00
2118	National Carbon Co., Inc.	328.68
2119	Newstrom Davis Co.	4,660.55
2120	O'Brien Printing & Stationery	2.60
2121	Peterson's Trailer Service	716.50
2122	Precision Optical Co.	19.93
2123	Power Engineering Co.	5.60
2124	Pearl-Friedland Co.	40.00
2125	Fearless Printing	3,647.18
2126	Raymond H. Price	13.30
2127	John W. Piekthall	15.21
2128	Polarizing Instrument Co.	364.07
2129	Prentice-Hall	6.00
2130	Public Service of Colo.	43.16
2131	Albert I. Quist	14.04
2132	Refrigeration Service Co.	336.52
2133	Robinson's Book Store	111.67
2134	Rocky Mt. News-Tom Kelley	12.00
2135	Rockmont Envelope Co.	291.81
2136	Royal Typewriter Co.	31.50
2137	Edward S. Ryan	15.00
2138	Sanitary Specialties	1,817.18
2139	Scott-Rice Co.	105.75
2140	H. I. Signer	31.94

SCHOOL OF MINES TAX FUND

2141	Silver State Printers	458.40
2142	Soft Water Service Co.	9.50
2143	A. J. Stark & Co.	10.00
2144	Gurnett Steinhauff	7.28
2145	Walter Allan Stewart	41.15
2146	Stiles Sales Co.	184.56
2147	H. E. Stommel	25.25
2148	Swena Transfer Co.	141.81
2149	Tempil Corp.	64.00
2150	Timpte Bros.	796.92
2151	W. S. Tyler	14.94
2152	Union Gas and Equip. Co.	60.49
2153	Universal Saw Filing & Grindings	11.05
2154	Ward's National Science Inc.	281.15
2155	Whitney Sporting Goods Co.	41.95
2156	John Wiley & Sons, Inc.	23.12
2157	Wilkins-Anderson Co.	947.50
2158	Dr. Lloyd Wright	657.00
2159	Revolving Fund	599.69
2160	Remington Rand, Inc.	368.30

TOTAL SUPPLY VOUCHERS

INDUSTRIAL RESEARCH FUND

128	Robinson's Book Store	3.60	38,910.95
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TOTAL INDUSTRIAL RESEARCH FUND

3.60

ATHLETIC ASSOCIATION FUND

0234	Harold Erebeck	5.00
0235	Davison-Koch Furniture Co.	7.00
0236	Eastman Kodak Stores, Inc.	161.53
0237	LaFrance Shoe Polish Col, Inc.	14.75
0238	Foss Drug Co.	506.55
0239	Gougar & Todd	665.91
0240	H. G. Howlett, M.D.	8.00
0241	Idaho State College	1,000.00
0242	Marshalls Nurseries	2,639.65
0243	Whitney Sporting Goods Co.	589.11

TOTAL ATHLETIC ASSOCIATION FUND

5,597.50

Mr. Steinhauer presented the following financial statements: Summary of Budget Appropriations and Disbursements for the period July 1, 1948, to June 30, 1949, the Balance Sheet as of August 31, 1948, the Dining Hall Statement of Profit and Loss for the month of August, 1948, and the proposed budget for the biennial period 1949-51. These reports were considered at length and President Parker and Mr. Steinhauer were instructed to continue studies on the proposed budget for the biennium 1949-51, in order that this budget might be considered for adoption at the next meeting of the Board.

President Parker presented parchment diplomas for Mr. Ramendra Nath Datta, who received the degree of Master of Metallurgical Engineering on May 28, 1948, and Mr. Kailash Chandra Chandok, who received the degree of Master of Geological Engineering on May 28, 1948. These diplomas were signed by Mr. Thomas S. Harrison, President of the Board of Trustees, and Dr. John W. Vanderwilt, Secretary of the Board of Trustees, and by President Parker.

President Parker stated that because of the unusual monetary exchange conditions now existing in China the Chinese students had requested a reduction in the tuition charge when applied to students from China. It was the consensus of the Board that such reduction could not be granted.

President Parker advised the Board of an inquiry made by Mr. Viles of the Viles Home Building Co. regarding possible cooperation from the School with respect to financing of a housing development planned by Mr. Viles. After a consideration of this housing development, it was decided that the requested cooperation was not in the best interests of the School and President Parker was instructed to notify Mr. Viles in this regard.

President Parker stated that it had become exceedingly difficult to secure applications for work from part-time student assistants because of the present rate of pay for such work. Upon motion by Mr. Thomas, seconded by Mr. Bowen and unanimously carried, the rate of compensation for student help was increased to sixty-five cents an hour effective as of September 21, 1948.

President Parker presented resolutions authorizing the use of facsimile signatures on checks drawn against the accounts of the Colorado School of Mines in The Colorado National Bank of Denver, The First National Bank of Denver, The United States National Bank of Denver, and The First National Bank of Golden. Upon motion by Mr. Bowen, seconded by Dr. Vanderwilt, the following resolutions were unanimously adopted:

RESOLVED, that The Colorado National Bank of Denver, Colorado, as a designated depository of this School be and it is hereby requested, authorized and directed to honor all checks, drafts or other orders for the payment of money drawn in this School's name on its account or accounts (including those drawn to the individual order of any person or persons whose names appear thereon

as signer or signers thereof) when bearing or purporting to bear the facsimile signature(s) of the following:

Ben H. Parker, President
Gurnett Steinbauer, Treasurer

and The Colorado National Bank of Denver, Colorado, shall be entitled to honor and to charge this School for all such checks, drafts or other orders for the payment of money, regardless of by whom drawn or by what means the actual or purported facsimile signatures thereon may have been affixed thereto, if such facsimile signatures resemble the facsimile specimens from time to time filed with the said The Colorado National Bank of Denver, Colorado, by the Secretary or other officer of this School; and

FURTHER RESOLVED, that all previous authorizations for the signing and honoring of checks, drafts or other orders for the payment of money drawn on the said Colorado National Bank of Denver, Colorado, by this School are hereby continued in full force and effect as amplified hereby;

RESOLVED, that The First National Bank of Denver, Colorado, as a designated depository of this School be and it is hereby requested, authorized and directed to honor all checks, drafts or other orders for the payment of money drawn in this School's name on its account or accounts (including those drawn to the individual order of any person or persons whose names appear thereon as signer or signers thereof) when bearing or purporting to bear the facsimile signature(s) of the following:

Ben H. Parker, President
Gurnett Steinbauer, Treasurer

and The First National Bank of Denver, Colorado, shall be entitled to honor and to charge this School for all such checks, drafts or other orders for the payment of money, regardless of by whom drawn or by what means the actual or purported facsimile signatures thereon may have been affixed thereto, if such facsimile signatures resemble the facsimile specimens from time to time filed with the said The First National Bank of Denver, Colorado, by the Secretary or other officer of this School; and

FURTHER RESOLVED, that all previous authorizations for the signing and honoring of checks, drafts or other orders for the payment

of money drawn on the said First National Bank of Denver, Colorado, by this School are hereby continued in full force and effect as amplified hereby;

RESOLVED, that The United States National Bank of Denver, be and it is hereby designated as one of the depositories for the funds of this Corporation and that any officer of this Corporation is hereby authorized to open an account with said depository for and on behalf of this Corporation, and be it

FURTHER RESOLVED, that said depository is authorized to place to the credit of said account of this Corporation, funds, drafts, checks, notes and other like obligations endorsed with the name of the Corporation either by rubber stamp, facsimile, mechanical, manual or other signature by whomsoever such endorsement shall be affixed, and in the absence of any such endorsement said depository be and it is hereby authorized to make such endorsement itself for deposit in the name and for the credit of this Corporation, and be it

FURTHER RESOLVED, that until further orders of the Board, said designated depository is hereby requested, authorized and directed to honor all checks, drafts and other orders of this Corporation drawn against said account, including those drawn to the individual order of any person or persons whose name or names appear thereon as signer or signers thereof, when bearing or purporting to bear the facsimile signature(s) of any two of the following:

Ben H. Parker	Official Character	President
Gurnett Steinbauer	"	Treasurer

FURTHER RESOLVED, that this Company does hereby waive any and all claims which it may hereafter have against said depository on account of its paying and charging to the account of this Company any check bearing or purporting to bear the impressed facsimile signature of any of the persons above mentioned, regardless of by whom or by what means the facsimile signature thereon may have been impressed, if such impressed facsimile signature resembles the impressed facsimile specimen duly certified to or filed with said depository by the Secretary or other officer of this Corporation.

FURTHER RESOLVED, that all previous authorizations for the signing and honoring of checks, drafts or other orders for the payment of money drawn on the said United States National Bank of Denver by this Corporation are hereby continued in full force and effect as amplified hereby;

RESOLVED, that The First National Bank of Golden, Colorado, as a designated depository of this School be and it is hereby requested, authorized and directed to honor all checks, drafts or other orders for the payment of money drawn in this School's name on its account or accounts (including those drawn to the individual order of any person or persons whose names appear thereon as signer or signers thereof) when bearing or purporting to bear the facsimile signature(s) of the following:

Ben H. Parker, President
Gurnett Steinhauer, Treasurer

and The First National Bank of Golden, Colorado, shall be entitled to honor and to charge this School for all such checks, drafts or other orders for the payment of money, regardless of by whom drawn or by what means the actual or purported facsimile signatures thereon may have been affixed thereto, if such facsimile signatures resemble the facsimile specimens from time to time filed with the said First National Bank of Golden, Colorado, by the Secretary or other officers of this School; and

FURTHER RESOLVED, that all previous authorizations for the signing and honoring of checks, drafts or other orders for the payment of money drawn on the said First National Bank of Golden, Colorado, by this School are hereby continued in full force and effect as amplified hereby.

President Parker stated that Mr. A. J. Weinig had asked to be relieved of his duties as Director of the Experimental Plant, effective December 31, 1948. He further stated that in view of the early date upon which Mr. Weinig will leave it appeared advisable to proceed with the incorporation of a corporation to engage in research work, without delay. As a consequence, he presented copies of proposed Articles of Incorporation and Bylaws of the Colorado School of Mines Research Foundation. These were considered by the Board and President Parker was instructed to present these articles and bylaws to Mr. Harold D. Roberts for his opinion as to their form and his advice concerning the organization of this corporation.

President Parker presented a Lost Policy Affidavit form with respect to Policy No. 658774 issued by the New England Mutual Life Insurance Company on the life of Cyril L. Fleischman. He stated that the records at the School indicated that at one time the School held an interest in this policy as security for a student loan to Mr. Cyril L. Fleischman and that the loan had been repaid. Upon motion by Mr. Thomas, seconded by Dr. Vanderwilt, the President and the Secretary of the Board of Trustees were authorized to execute this Lost Policy Affidavit form.

President Parker also presented an easement grant to the Colorado Central Power Company for the route of a new power line across a portion of the School's property. Upon motion by Mr. Bowen, seconded by Mr. Thomas and unanimously carried, this easement was approved and executed on behalf of the Colorado School of Mines by the President and the Secretary of the Board of Trustees.

The meeting then adjourned.

Secretary

Golden, Colorado
October 22, 1948

The Board of Trustees met in special session on October 22, 1948, at 10:00 A.M., at the President's Office, Colorado School of Mines, Golden, Colorado.

Present: Messrs. Harrison, Thomas, and Vanderwilt.

Absent: Mr. Bowen.

Also present were President Parker, Messrs. Steinhauer and John J. Kelley; Robert G. Middleton, Mayor, Brooks Field; William G. Campbell, Representative, Brooks Field; Christie V. Arno, Executive Secretary, Veterans' Villages of Colorado; Jerome Tagg, Mayor, Pioneer Village; and Ray Perkins, Jr., Mayor, Euchtel Village.

The committee representing veterans' trailer housing projects presented a request that running water and sewer connections be made to each of the temporary housing units at Brooks Field and that additional sanitary facilities be provided by converting one of the housing units for that use. Mr. Middleton and Mr. Campbell from this committee gave an estimate of the cost of providing these additional facilities. Mr. Arno made a statement in support of the committee's request.

The Board and visitors then adjourned to Brooks Field and inspected the housing development.

Following the reconvening of the meeting in the office of the President, Messrs. Middleton, Campbell, Arno, Tagg, and Perkins left the meeting.

The members of the Board and the remaining visitors then adjourned for lunch at the School dining hall.

After lunch the meeting was again convened in the office of the President.

Mr. John J. Kelly was requested to make a careful study of the costs of additional facilities requested for the Brooks Field development and to have a report regarding these costs available for the next regular meeting of the Board of Trustees.

The meeting then adjourned.

Secretary

October 22, 1948

ARTICLES OF INCORPORATION

of the

COLORADO SCHOOL OF MINES RESEARCH FOUNDATION, INCORPORATED

KNOW ALL MEN BY THESE PRESENTS, that we, _____

all of whom are citizens of the United States of America, of full age and residents of the State of Colorado, pursuant to Article 13, Chapter 41, 1935 Colorado Statutes Annotated, have this day voluntarily associated ourselves together and do hereby and by these Articles of Incorporation unite and associate ourselves together for the purpose of forming a corporation not for pecuniary profit under the laws of the State of Colorado, and for the purposes hereinafter stated.

ARTICLE I.

The name of this corporation shall be: COLORADO SCHOOL OF MINES RESEARCH FOUNDATION, INCORPORATED, hereinafter sometimes referred to as the Foundation.

ARTICLE II.

The term for which the Foundation shall exist shall be in perpetuity.

ARTICLE III.

The location and principal office of the Foundation shall be in the City of Golden, Jefferson County, Colorado.

ARTICLE IV.

The objects and purposes of the Foundation shall be to promote, prosecute, encourage and aid scientific and technological investigation and research and to provide or assist in providing the means and facilities by which scientific and technological discoveries, inventions and processes may be developed, applied and patented and the public and commercial uses thereof determined, and by which such utilization or disposition may be

made of such discoveries, inventions and processes, and patent rights or interests therein, as may tend to stimulate and promote and provide funds for further scientific and technological investigation and research.

To effectuate these objects and purposes, the Foundation, although not limited to the following activities, shall have the power:

(1) To obtain, establish and maintain facilities and personnel for scientific and technological research and investigation.

(2) To conduct research, investigation, studies and tests in the fields related to the mineral industries as well as such other fields as may from time to time be deemed advantageous by the Foundation.

(3) To promote pure and applied science.

(4) To establish cooperative relationships and to secure participation between the Foundation and Federal, State, and local governments, individuals, corporations, and organizations in the general fields of and within the scope of the Foundation's activities.

(5) To make available the services, facilities and personnel of the Foundation, or any of them, to Federal, state and local governments, individuals, corporations and organizations upon such terms and conditions as the Foundation may from time to time fix and determine.

(6) To make such investigations, studies, research and tests, either upon the request of others or upon its own initiative as deemed advantageous by the Foundation.

(7) To develop new and useful items and articles of commerce and processes, plans and methods of art and industry.

(8) To collect, interpret, and analyze data and information, to conduct surveys and studies, to prepare reports, to publish, print, and otherwise disseminate such data and results, all with or without charge, as deemed advantageous by the Foundation.

(9) To solicit and receive grants and services from individuals, governmental agencies, corporations, and organizations, public or private; to make awards, give grants and services to individuals, governmental agencies, corporations, public or private, or agencies for furthering

the work of the Foundation.

(10) To experiment upon, test, promote, and develop the public, scientific and commercial value of inventions, discoveries and processes.

(11) To prosecute and/or aid in the prosecution of applications for patents, and obtain patents, both foreign and domestic.

(12) To receive donations, gifts, bequests or assignments of inventions, applications for patents, and/or patents, both foreign and domestic, and of rights, licenses and interests in inventions, processes and patents, and of money or other property, and to accept the same subject to such conditions or trusts, as may be attached thereto or imposed thereon with respect to payment of royalties, application of income or proceeds, or otherwise, and to obligate itself to perform and execute, and to perform and execute, and all such conditions or trusts.

(13) To enter into contracts or trust agreements with inventors or applicants for or owners of patents, or of patent rights, licenses or interests, for the rendering of aid in the obtaining, perfecting, and/or maintaining of patents, both foreign and domestic, and the protection thereof, and for the testing, development, improvement, manufacture, use and disposition of patented articles, devices and processes, and for the disposition of the patent rights, licenses and interests of the inventor, upon such terms of earnings and proceeds as may be agreed upon.

(14) To acquire and to sell and dispose of inventions, applications for patents and/or patents, both foreign and domestic, and interests therein, and patent rights, licenses and privileges, including territorial rights, and to grant licenses to others to manufacture, use and sell, or either, and to itself manufacture, use and sell, or either, under patents, foreign and domestic, or under licenses, rights and interests therein, and to receive, collect, and enforce collection of royalties, or other consideration, for patents, or patent rights or interests, or devices, articles or processes, of which disposition may be made or contracted for.

(15) To prosecute infringements or invasion of any patent or patent right in which the corporation may be interested, and to defend against infringement, and protect, any such patent or patent rights.

(16) To acquire and possess all the powers with respect to copyrights for articles, pamphlets, books, and other compositions, composed or edited under the direction of the Foundation or with its assistance or by its members, and which may come into the possession and ownership of said Foundation, and any and all other such articles, compositions, books and pamphlets as may be produced by others and come into the ownership of this Foundation, possessing with respect thereto the same powers and authorities as are herein enumerated with respect to patents.

(17) To acquire by gift, bequest, devise or purchase property, real, personal or mixed; to sell, convey and dispose of such property; to encumber such property when deemed necessary; and to use the proceeds thereof for the uses and purposes of the Foundation.

(18) To borrow money and to secure the same.

(19) To exercise any and all powers which may be conferred by law or which may be necessary, incidental, or convenient to the objects and purposes above mentioned.

ARTICLE V.

The business of the Foundation shall be managed and conducted by a Board of seven Trustees consisting of one member of the Board of Trustees of the Colorado School of Mines selected by that organization, the President of the Colorado School of Mines, the Business Manager of the Colorado School of Mines, one member of the faculty of the Colorado School of Mines selected by said faculty as a group and three persons elected by the Foundation, at least one of whom shall be a member of the American Institute of Mining and Metallurgical Engineers.

Until the Trustees of the Foundation shall be elected, the signers of these Articles shall have direction of the affairs of the Foundation and may make such rules as may be necessary for perfecting its organization and for accepting members.

ARTICLE VI.

The Board of Trustees shall have the power to make, amend and repeal Bylaws and regulations for the government of the Foundation, for the orderly conducting of its affairs and management of its property, and fixing the time and place for periodic meeting of the members, and defining the number and qualifications of members of the Foundation and the conditions of admission thereto, and the time, mode, conditions and effect of expulsion or withdrawal from and of restoration to membership; subject, however, to the restriction, which shall not be removed by any amendment of these Articles, that no member of the Foundation shall be given or be deemed ever to have any proprietary interest in the property or assets of this Foundation, whether during the term of its existence or as an incident to its dissolution.

ARTICLE VII.

The members of the Foundation shall be persons interested in or corporations or associations or partnerships engaged in scientific and technological matters or in research directed toward development along such lines. The Foundation shall not issue capital stock but shall issue membership certificates to its members.

ARTICLE VIII.

(a) No officer, director or member of the Foundation shall at any time receive or become entitled to receive any pecuniary profit from the Foundation; provided, however, that compensation may be paid for any services rendered to the Foundation by any officer, director, member, agent, or employee or any other person or corporation pursuant to authorization by the Board of Trustees.

(b) No dividend or distribution of the property of the Foundation shall be made until all debts are fully paid, and then only upon its final dissolution and surrender of organization and name, nor shall the Foundation be dissolved or distribution made except by a vote of a majority of the members having voting rights as defined in the Bylaws.

(c) Upon dissolution, any assets remaining shall be transferred to the Colorado School of Mines either as general endowment, if the Board

of Trustees of the Foundation shall so direct, or for such restricted purpose as said Board may designate in the instrument of transfer or in concurrent writing; provided that if at the time of dissolution of the Foundation the Board of Trustees of the Foundation shall determine that the Colorado School of Mines is unable or unwilling to accept such transfer or effectively to carry out the purposes to be accomplished thereby, then said Board may transfer said remaining assets or any part thereof to such other scientific, research or educational institution as it may select, subject to such provisions as to use as it may fix.

(d) No member of the Board of Trustees, nor any officer appointed by them pursuant to the terms hereof, shall be personally liable for any act performed by them in good faith, nor shall they or any of them be liable for non-feasance or misfeasance in the performance of their duties or acts hereunder but they shall be liable only in the case of malfeasance. The Foundation shall indemnify the members of its Board of Trustees, officers and employees against any and all expense, including attorney's fees and liability expense sustained by them, or any of them, in connection with any suit or suits which may be brought against said members of the Board of Trustees, officers and employees, involving or pertaining to any of their official acts or duties (whether it be alleged that same are ultra vires or otherwise) and in which suit or suits no personal liability is finally established against them incident to any act of malfeasance; and this provision shall not be deemed to prevent compromise of any such litigation where the compromise is deemed advisable in order to prevent greater expense or cost in the defense of any such litigation.

ARTICLE IX.

The Board of Trustees of the Foundation may meet and transact the business of the Foundation either at the principal place of business herein designated or at such other place within or without the State of Colorado as may be designated by resolution of the Board of Directors.

ARTICLE X.

These Articles of Incorporation as permitted by the laws of Colorado may be amended at any time, and in any respect except as herein expressly restricted or forbidden, if so authorized by the vote of at least two-thirds of the members having voting rights present at any meeting called for the purpose of considering such proposed amendment or amendments, upon written notice served upon such voting members of the Foundation, as provided in the Bylaws for calling meetings of members.

REGULAR MEETING BOARD OF TRUSTEES

November 12, 1948

The Board of Trustees met in regular session on November 12, 1948, at 10 A.M. at the President's Office, Colorado School of Mines, Golden, Colorado.

Present: Messrs. Bowen, Harrison, and Thomas.

Absent: Dr. Vanderwilt.

President Parker and Mr. Steinhauer attended the meeting.

The minutes of the regular meeting of October 8 and the special meeting of October 22, 1948, were read and approved.

Mr. Steinhauer presented the following financial statements which were accepted and approved: Summary of Budget Appropriations and Disbursements for the period ending October 31, 1948, the Balance Sheet as of October 31, 1948, and the Dining Hall Statement of Profit and Loss for the month of October, 1948.

President Parker presented a report dated November 10, 1948, from Mr. John J. Kelley, Director of Development and Planning, regarding expansion of sanitary facilities at the Brooks Field temporary housing project, which had been requested by representatives of the tenants at the project. After a consideration of the costs involved, the time which would be required for construction of the requested facilities, and the probable life of the project, it was the consensus of the Board that these additional facilities should not be provided and President Parker was instructed to so notify the mayor of Brooks Field Housing Project

President Parker informed the members of the Board that the Faculty had recommended that Mr. John Dasovich be granted his degree, ^{effective as of} effective as of May 28, 1948. It was moved by Mr. Thomas, seconded by Mr. Bowen, and unanimously passed that this degree be granted as recommended.

The subject of determination of the legal residence of students was discussed and upon motion by Mr. Thomas, seconded by Mr. Bowen and unanimously carried, the period prior to the student's enrollment at the Colorado School of Mines during which he must have been a bona fide resident of Colorado in order to qualify as a Colorado resident was increased from six months to twelve months.

Mr. Harrison questioned the advisability of granting scholarships to women students. Upon motion by Mr. Bowen, seconded by Mr. Thomas and unanimously carried, it was decided that scholarships would not be granted to women in the future.

Upon the recommendation of President Parker, it was moved by Mr. Bowen, seconded by Mr. Thomas and unanimously carried that Professor Robert H. Carpenter, of the Department of Geology, be granted a leave of absence for the months of January, February and March, 1949, and for the academic year 1949-50, in order that he may engage in professional work for the New York and Honduras Rosario Mining Company.

The Articles of Incorporation and By-Laws of the Colorado School of Mines Research Foundation, Incorporated were again reviewed by the members of the Board. ~~and~~ upon motion by Mr. Bowen, seconded by Mr. Thomas and unanimously carried, these **A**rticles and **B**y-laws were approved and President Parker was instructed to proceed with the organization of the corporation.

The meeting then adjourned, after which
the members of the Board had lunch with President Parker
and Mr. Steinhauer at the School dining hall.

ENGINEERS. DVA
INTELLIGENCE

GOLDEN COLORADO
SCHOOL OF MINES ENGINEERING
COLORADO SCHOOL OF MINES



November 10, 1948

President Ben H. Parker
Colorado School of Mines
Golden, Colorado

Re: Expansion of Sanitary Facilities,
Temporary Housing Project - Brooks Field

At your direction I have examined the conditions and requirements for expanding the sanitary service at the temporary housing project at Brooks Field. It is my opinion that provision of plumbing services to each unit will cost us at least \$4,600.00, and conversion of one unit to furnish toilet facilities as recommended by Mr. Middleton will cost us not less than \$3,567.00.

In preparing these estimates I have made no provision for contractor's profit and overhead, nor have I allowed any amount for contingencies. I am certain that if this project is carried out in the manner in which I visualize it the total cost will be considerably more than the figures stated above, and will probably exceed \$10,000.00.

On the following pages is a detailed description of my estimate along with a discussion of our previous investments, amortization possibilities and turnover of residents.

John J. Kelley, Director
Development and Planning

JJK:dph

PLUMBING SERVICES

This item includes installation of water and sewer services to within five feet of each unit. It includes excavation and backfill, materials and labor. See Drawing Sheet 1, for plumbing layout.

Water Service

Pipe laid in sewer trenches, 1403 feet @ .50	\$ 701.50
Trenching and pipe required other than sewer trenches	
Machine dug, 77 feet @ .90	69.30
Hand dug, 98 feet @ \$1.75	171.50
20 stop boxes installed @ \$6.00	120.00

Estimates are based on $\frac{1}{2}$ " copper pipe quoted by Hendrie and Bolthoff at .46 per foot. Galvanized pipe is not available. Allowance of .04 per foot made to cover fittings and laying of pipe.

Sewer Service

Machine dug, 986 feet @ .86	\$ 847.96
Hand dug, 478 feet @ \$1.75	817.38

These estimates are based on quoted prices made by W. B. Shepard, excavator; V. R. Crosser, plumber; C. C. Hughes, business agent, drainlayer's local union, Denver.

Machine excavation	.35/ft.
Machine backfill	.05/ft.
4" sewer tile	.36/ft.
Labor, drainlayer (\$1.60 per hr.)	.06/ft.

Miscellaneous materials such as cement, caulk, fittings at \$1.50 each, labor to fine grade trench .08/ft.

TOTAL90/ft.

Hand excavation (one man will dig about 10 feet of 18" x 4' trench per day, less when tunneling under walks and dwellings, union labor scale @ \$1.40 per hr.)	1.15/ft.
Hand backfill	.10/ft.
4" sewer tile	.36/ft.
Labor, drainlayer	.06/ft.
Miscellaneous (same as machine digging)	.08/ft.

TOTAL1.75/ft.

Estimated unit price to bring sewer into each building in cast iron, trap and vent each sink; bring water service into each unit, install faucet at each sink, insulate line against freezing; all digging, carpentry and other work incidental to this phase of operation according to existing codes:

3 1/4 units @ \$55.00	\$1,870.00
TOTAL for water and sewer service to 3 1/4 units	\$4,600.00

CONVERSION OF UNIT TO TOILET HOUSE

Concrete—excavation, forming, placing, treating and finishing

Foundation 5 cu. yds. @ \$35.00	\$ 175.00
Floor 2 cu. yds. @ \$35.00	70.00

Grading and Filling

Fill 11 cu. yds. @ \$2.25	24.75
Grading, 4 labor hours @ \$1.40	5.60

General Carpentry

Move trailer and replace on new foundation, remove floor, cabinets, etc.; construct stalls and partitions and all other miscellaneous work not included elsewhere, 200 man hours @ \$2.10	441.00
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Wiring and Electrical Fixtures

56.00

Plumbing

Water heater installed	260.00
Space heaters installed (with thermostats)	165.00
Gas service line, 360 feet @ .75	270.00
Fourteen (14) plumbing fixtures @ 150.00	2,100.00

TOTAL \$3,567.35

ANTICIPATED INCOME

Following is a tabulation of maximum rental income we can hope to receive for the duration of the project. This and Operating costs prescribed later have been taken from Sheet 2 of the enclosed drawing and charts.

The graph on Sheet 2 is a compilation of statistics which have been illustrated to show the percentage of trailer days of occupancy, by

months, from July 1, 1946 to September 1, 1948. The number enclosed in a circle at each of the plotted points is an expression of the average number of units rented for the given month. The forecast curves after September 1, 1948 define the maximum and minimum percentage of occupancy we may anticipate in the future, and they indicate the probable closing date of the project for lack of renting potential.

Income is based on the maximum occupancy forecast so as to show the greatest revenue we can hope to receive.

September 1948 through June 1949	\$ 6,470.00
July 1949 through June 1950	4,667.50
July and August 1950	160.00

TOTAL maximum anticipated income for duration of project. . . \$11,305.50

PREVIOUS INVESTMENTS

Our original cost for placing the trailers in the Field House was \$10,061.75. That installation was made during the winter of 1945-46. The cost was amortized by September 1, 1948 when the dwellings became our property and were moved to the Brooks Field location. There were no funds on hand at that time to be applied against the moving cost because all surplus money went to the United States Government according to the terms of our contract.

For all expenses incurred in site preparation, walks, utilities, services, repairing, moving and winterizing the units for their complete establishment at Brooks Field we will have spent \$24,519.10, exclusive of work performed by personnel of this department. In this amount I have included 50% of the cost of the restroom building, sidewalks to units only, waterpoints, securing units for winter, electrical service, exterior painting of units, gravel for service road but no earth moving or fencing.

OPERATING COST

Following is an estimate of our annual operating expenses for the anticipated life of the project. Items are tallied according to whether they are for fixed amounts or depend upon the number of units occupied. When an amount is dependent upon the number of rentals I have scaled it according to the maximum occupancy forecast on the Drawing marked Sheet 2.

September 1, 1948 -- June 30, 1949

<u>ITEM</u>	<u>FIXED EXPENSE</u>	<u>VARIABLE EXPENSE</u>
Insurance	\$ 95.40	
Labor	1,350.00	
Gas	547.20	
Electricity		\$ 125.76

(continued following page)

<u>ITEM</u>	<u>FIXED EXPENSE</u>	<u>VARIABLE EXPENSE</u>
Paint		\$ 83.10
Water		135.45
Supplies (other than fuel)		52.83
Miscellaneous upkeep and repairs		158.00
Fuel, Kerosene		102.20
Oil		1,323.71
	<u>\$1,992.60</u>	<u>\$1,981.85</u>
TOTAL		\$3,973.65

July 1, 1949 -- June 30, 1950

Insurance	\$ 114.45	
Labor	1,620.00	
Gas	619.20	
Electricity		\$ 126.14
Paint		63.90
Water		140.68
Supplies (other than fuel)		37.18
Miscellaneous upkeep and repairs		111.20
Fuel, Kerosene		72.17
Oil		781.91
	<u>\$2,353.65</u>	<u>\$1,333.18</u>
TOTAL		\$3,686.83

July -- August 1950

Insurance	\$ 19.00	
Labor	280.00	
Gas	72.00	
Electricity		\$ 16.24
Water		12.50
Supplies (other than fuel)		1.18
Miscellaneous upkeep and repairs		3.53
Fuel, Kerosene		2.28
Oil		12.18
	<u>\$ 371.00</u>	<u>\$ 47.91</u>
TOTAL		\$ 418.91

Turnover of Tenants

Sheet 3 is a compilation of statistics which have accumulated from our renting experiences between July 1, 1946 and September 1, 1948. A tabulation by families was prepared to determine the number of days for which each family had paid rent. The renters were then segregated into categories shown by the ordinate, and the number of renters was represented by the abscissa.

It is of interest to note that of the 152 families who rented units.

from us during the period:

9.2%	remained less than	25	days
22.4%	"	"	50 days
36.2%	"	"	75 days
46.7%	"	"	100 days
52.0%	"	"	125 days

and

2.0%	remained over one year
11.2%	remained over nine months
21.7%	remained over six months

Conclusion

Although our gross anticipated income shows a possible gain over planned operating costs for the life of the project of \$3,226.11, it must be remembered that we have invested nearly \$25,000.00 against which any gain should be applied.

It has been suggested by Mr. Middleton and Mr. Arno that with the improvements they proposed we might anticipate nearly 100% occupancy for some period of time. The work involved in carrying out their plan could not be completed in less than three (3) months time. If it were assumed that for a year afterward all units were demanded for rental we could expect an additional gain of only \$3,094.08, which is only about one-third of the cost of such a project. Furthermore, if that plan were carried out amortization would require seven years of full occupancy to defray the cost of moving the units plus this improvement.

It is apparent that we are now faced with an over-all loss of more than \$21,000.00, and that the requested improvements would increase that figure by many thousands of dollars. It is my opinion that we have improved conditions over those that existed in the Field House, and that the present development is adequate.

November 10, 1948

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TOTAL1.75/ft.

Estimated unit price to bring sewer into each building in cast iron, trap and vent each sink; bring water service into each unit, install faucet at each sink, insulate line against freezing; all digging, carpentry and other work incidental to this phase of operation according to existing codes:

34 units @ \$55.00	\$1,870.00
TOTAL for water and sewer service to 34 units	\$4,600.00

CONVERSION OF UNIT TO TOILET HOUSE

Concrete—excavation, forming, placing, treating and finishing

Foundation 5 cu. yds. @ \$35.00	\$ 175.00
Floor 2 cu. yds. @ \$35.00	70.00

Grading and Filling

Fill 11 cu. yds. @ \$2.25	24.75
Grading, 4 labor hours @ \$1.40	5.60

General Carpentry

Move trailer and replace on new foundation, remove floor, cabinets, etc.; construct stalls and partitions and all other miscellaneous work not included elsewhere, 200 man hours @ \$2.10	441.00
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Wiring and Electrical Fixtures

56.00

Plumbing

Water heater installed	260.00
Space heaters installed (with thermostats)	165.00
Gas service line, 360 feet @ .75	270.00
Fourteen (14) plumbing fixtures @ 150.00	2,100.00

TOTAL	\$3,567.35
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-5-

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