Query? Has the law of sensation only reference to color changes which include a change of luminosity? (spectro-analysis)
Does it hold when there is only a change of chroma without any change of luminosity? In other words, is it a variable relation of two factions (value - chroma)? Will it fail when luminosity is equal throughout a color? so that only a single factor (chroma) is involved?

May 11
I open this question to Dr. Bigelow at Pierce Bldg. M.I.T. He asks is it a new law of sensation. Considers the wave theory pretty well established - but the retinal action is debatable -(chemical, photographic or ).

15
Dr. Wendell lends me a D.V. spectroscope to test chroma.

16
Tested new yellow crayon for W.H. & Co. Tel. Mr. Gunnison it is pretty close: a trifle red, - should lean to green.
(Samples and comparison of Oct.'05 crayons and May, '06 crayons appear on 41a.)

Mr. Finlay at studio to see best models.

May 23
Sample box of crayons still shows tendency to warm and over chromatic hues - (yellow, purple, gray)

10:30-1 With Miss Patrick at the Pope School-Union Sq. Somerville - meeting Mr. Wadsworth, Supt. Southworth and the teachers. Color exhibits in each grade on the walls, and I take selection from each.

26
5-6 Mr. & Mrs. Putnam - Mr. W.J.Edwards ----- Show Pope School exhibit, color charts, models and color tree.
Receive 2 Milton Bradley boxes for test report.

29
Took small color sphere and 2 small 15 colors from Clarendon St. store - $1.30 retail.

June 6
Mr. Burdett (Silver & Burdett) spends an hour on the color system, - seeing exhibit of 9 grades from Somerville. Give him a copy of "Color Notation".

W & H - send new sample crayon - purple order 75 copies of book direct from me. (75)
Grade

| I  | 5 crayons | name order |
| II | 10 "      | "         |
| III| 5 "       | Lighter & darker values |
| IV | 10 "      | Scales |
| V  | Chroma    | Weaker & Stronger Chromas |
| VI | circle of 10 hues with chromas |
| VII| Watercolors | review of H V C & scales |
| VIII| "         | Objects treated in flat color - Area. |
| IX | "         | study of Jap prints & textiles |
|    |           | 3 steps selected - named design for applied art written & used in a design. |

June 8
Rec. 5" sphere & test it.
Middle red too strong in chroma and slightly light in value. Advise change & stamp on box, saying "Do not touch the colors; spin by the handle."

Oct. 17
In answer to Mr. Gunnison (questioned by Mr. Leavitt.)
Advise 1 large sphere for each school bldg., 1 small " " room, 1 set large enamels " " " 1 " small " " 1 / pupils 1 copy "Color Notation" for each teacher.

He sends new pattern 5" sphere - and I return faulty one (June '06) - also send 10 photometer circulars.

Definite Mental Color Images

3 Qualities or dimensions
1. Hue
2. Value
3. Chroma

Balance
Hues - hot and cold } lack of balance
Values - light and dark } must be compensated by Chromas - weak and strong corresponding areas.
(On page 42a. there appears a clipping from the Journal of Education - Oct. 11, 1906, entitled "New Color Notation". It is a description of the Munsell System.)

Oct 18
9-10 Boston Normal School (Rice Bldg. Hall) Mr. Boyden, Mr. Poor, Miss Shute

1 The Color Sphere -
a spectrum of middle value at the equator - circle divided into 10 equal steps - 5 principal steps for beginners.

The Color Tree
unequal maxima of pigments - trunk of values - branches of chromas - an irregular color solid - "tuned down" to a balanced equator.

2 Scale of Hue - horizontal (a circuit tested by rotation)
  "  " Value - vertical (a mean & two extremes) tested by photometer
  "  " Chroma - central (a mean & 2 extremes) tested by new instrument

3 Charts of the color solid
  Horizontal - 20, 30, 40, 50, 60, 70, 80 (decimal
  Vertical - R, YR, Y, GY, G, E, EG, E, PB, P, RP, R) scales

Show pupils work in 9 grades from Somerville -
" that green is not complement of red.
" orange is an interloper & destroys balance.

Oct 24
12-1:30 Mr. Wood of A.D. Little, Chemists, 93 Broad St. Sees photometer - charts and sphere. Measured velvet, and various papers for Am. Writing Paper Co.

Mr. T. AEH

| 94.5 | 90.6 | 91.5 | 96.1 |
| 87.5 | 97.  | 97.  |     |
| 90.  | 90.6 | 91.5 | 96.1 |
| 64.  | 74.  | 74.  | 74.  |
| 61.5 | 62.1 | 74.  | 74.  |
| 74.  | 83.  | 84.  | 85.3 |
| 78.  | 76.3 | 84.  | 85.3 |

white writing papers, darker in terms of lighter -
yellow writing papers - in terms of white
" (3 diffusers to bring readings to a sensitive register)
Mr. George acknowledges he has not read my book - yet he has explained the system to Class A for two years. Such explanation only does harm.

29

4:30-5 Miss Patrick Tells of her teacher's pleasure in carrying out the color system in the Pope School - Talks with Mr. Bailey, Sargent, Boyd, etc. Teacher (Miss Cheney) wants the outside steps to R & Y. I tell her Vermilion (-) - R 9/2

\[
\text{Chrome Yellow Y}_8^{9/11}
\]

Area must be restricted because they have no balancing opposite. "Muddy colors" not necessarily dull, but unrelated - Whistler, and Jap prints are dull but related. They give no sense of mud.

The Poppy, buttercup, and dandelion are extremely small specks in great areas of middle color - We cannot cover our walls or our dress with them.

Oct 31

Studio - 3:40-4:30 Miss Fisher, Miss Aborn, Miss Shute and Mr. Poor - Discuss kindergarten phase of the new color system.

1. Explain color solid

Show tree and sphere sections-charts.

a. Prove \( \Omega \) is wrong - both as to total balance and to opposite colors.

b. Show \( \Omega \) is right.

c. Show scales of Value

2. Somerville grades I-IX

<table>
<thead>
<tr>
<th>Results achieved in these schools</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fixed basis - middle colors first - lighter and darker next</td>
</tr>
<tr>
<td>weaker and stronger last</td>
</tr>
</tbody>
</table>

4 Crayons not water colors - in grades 1-5

Materials

| sphere - 5 cards |
| 5 crayons |

3 Water Color

obedient, when a standard is memorized and understood
Why give children colors they cannot use in after life? Colors that are "ill-bred" and "sweat"—tabooed by colorists and people of taste—color totally unrelated, uneducational—savage and atrocious. Would we for a moment permit its analogue in music?

---

Objected—"How can we do this without papers? (Miss A)"

Colors not strong enough to impress children. (Miss P.)
Can we not find BG to equal our red?
(I tell of Prof. Gill's remark)
Do not some need stronger colors than others?
(champagne—siren—stunning blow—not for children)
"We teach a color for its thrill—not for relation.
(Is C or G sounded to give a thrill?)
(or to study relation of musical sound)
"When I look at intense red, it thrills me.
(Suggest association with fire—blood and danger.)
"Now what do you say to a ruby—a deep blood ruby?
(Show it is a complex color sequence—not red alone—also show the same is true of a buttercup in sunlight)
(No child can adequately represent either of them.)

---

Nov 1
Design box of Water Colors—5 middles) 2 neutrals (3 maxims)

2 Miss Nye and Miss Drexel (H.K. Turner Co) see paintings

4-5:30 Mr. Gunnison—brings Mr. Hertzbonie—
(Favor, Ruhl & Co. Chicago)
Sees spheres, photometer, chart (60) and Somerville course. Accepts measured color as beautiful color. (I give Mr. G. placard for display sphere.) Wants western agency for my book—from Ellis & Co. Asks if a box of water colors should not be made for me?

6 2:30-4 Students come to see studio and paintings.
Afterwards discuss color—
Miss Lewis (in Miss Fisher's school) asks
"Can young children distinguish the middle colors—do they not need strongest contrasts—
Could you not give them lighter colors (brighter)?"

12 2 p.m. At Mr. Howland's desk—Sh. Wash. St.
Discussed Color Box—Told of lack of circulars and a damaged sphere. Took sphere—crayons, balls and cards (small)—3 spheres damaged.
3 p.m. Mr. Horace K. Turner at studio -
Sees spheres - balls - circulars - tests of
balance on machine -
Asks - what is a complementary -
" is gray in pigment mixture equivalent to
white in light mixture
" have you pushed it - made a good thing of it-
(Prang's are stuck on those books - not a
success.)
" can you measure the light of a room - and
give a scheme of walls, pictures and
decorations that are harmonious?

Mr. T. tells of his color prints from England -
Wants to be able to so direct from a distance
that the rooms and their decorations shall be
beautiful.
Thinks Bailey a "wonderful man" - Knows Hall,
Daniels and Sargent.

Nov 13 (Sunny with clouds) N.A.S. Class A and
Teachers Class - 10:30-12

I Color Estimates and Measures
-personal - without standard: subject to change
impersonal : a fixed " : exact, reproducible
How color is measured
  Colored light - by wave-length
    " pigments - by photometer & other instruments
(dangers & allurements of musical analogy)
A Filing cabinet - 100 drawers) classed by
  white 100 to black 0 ) Value
The Color Tree
  Trunk - a scale from black to white
  Branches - scales of strength from Maxima
to neutrality
Complementary colors.
First the theory of 3 sensations in
retina - Red, Green, Violet Blue.
(Why pigments cannot illustrate well)
  Yellow = Red + Green
  Blue = Green + V. Blue
  Purple = V. Blue + Red
The complement - what is wanting to
produce balance - or pigment
"balance" (white light, equivalent -
( Neutrality.
  Red - complement is Blue Green
  Green - " Red Purple
  V. Blue - " Yellow
Completed color tree - (all its leaves) an
irregular solid.
Color Sphere - turned out of the color solid
(mountains razed to lowest valley)
tested for balance.
Idea of Middle Colors as a starting point in education. Illustrated by 9 grades of the Pope School.

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Nov 20 II Color Groups Review: [Image of spectrum strips and diagram]

Metcalf's 46. landscapes landscapes spectrum Grigor prints Jap prints Tapestries

2 dimensions fail: the 3d dimension indispensable. Mrs. Franklin's theory color blindness Helmholtz diagram "white light in a color.

Pigment action illustrated by colored glasses - surface light - & deep light (double stained)

Color Paths V- change of value ) color steps grasped H- " hue ) by a child as C- " chroma) scales

spectrum too complex for a child

Color Records - A chart of the color solid (mercator) significance of each field.

Verdure, Tapestry Tintoretto's Class

"Harmony" and its laws may be discovered by such records and expressed in definite form. Present color terms useless.

Illustrations from Pope School - Somerville - taken from Jap prints and adapted to designs for Wall Decoration.

Nov 27 - Dull, gray day. - M.A.S. Class A Teachers' Class & 47a. III. Practical Color Work (Decorative - Picturesque)

Review
Steps in creating a definite color-image(mental). Ability to memorize - imitate and record colors. Balance - retinal case - freedom from strain and fatigue.
Beautiful Color
Pleasing by a sense of proportion - Balance
(too hot or too cold H
Unbeautiful color ("light" "dark V
("weak" " strong C
Middle gray the balancing point
compensations by area - V & C

Pigments
not light; the practical color agents.
Behaviour of pigments in oil, pastel and
water color.
They act by absorption - not transmission
The palette set as a practical scale of
light and color.

Decorative and Picturesque Treatments
1 Flat - to please the eye - Rug
2 Illusion- to please the mind - Portrait
Archaeology traces a progression from 1-2
Education in color should do the same.
Perspective & chiaroscuro and Textures,
advanced ideas
Flat scales and application for beginners-

Dec 8
Society of Chemical Industry
Demonstration of "Kochet" process of color
photography at 77 Summer St. - 8 P.M.
Mr. Gagnebin, Fish, Turner, Wood, Prof. Hill-Talbot.

Report on Favor Ruhl & Co. 107 East Lake St.
Chicago - branch of Home office - 54 Park Pl. NYC.
Fire Nov. 16, 06 - from adjoining bldg. - small
loss - Ins. $21,000. Estimated worth $60,000-
$70,000 - pay promptly - Started in March, 1904.
The business was commenced under present style
in 1893 - The firm consisting of Conrad H. Ruhl,
Irving T. Favor, and Charles Mayne, special partner
for $10,000 - to Jan. 1, 1903.
Ruhl had previously been of the United Refiners' Export Oil Co. and Favor had been in the employ of J. Marsching & Co., 27 Park Pl., whose artist material dept. they took over.
On Dec. 31, 1901 Favor withdraw and John Hobbs and William Mayne were admitted. Chas. Mayne be
coming a special partner for $20,000 to Jan. 1, '07.
They are well regarded personally, and the business is believed capably managed. They opened a branch in Chicago, Ill. during 1904, and are believed to have made some money. Locally they are in full credit for their wants, and meet their objections promptly. Statement is accepted as correct - though liabilities are regarded large in proportion to assets.
Dec 18  Mr. Bidwell of Favor Ruhl.
    Comes with Mr. Putnam (Mr. Currier at studio)
    To ask questions about my system -
    1 How to put it into schools -
       I tell him it destroys nothing - only
       unites and explains previous methods.
       Begin with the middle colors - instead
       of extremes. Definite measures in place
       of guess-work. Use gray paper, not white.
    2 Expense
       I advise trying it in a strong school first,
       until supervisor gains confidence - then
       spreading it. Crayons, cards, spheres -
       for 6 grade - then water colors.
    3 Best for it to come through the Normal School-
       Circuit for Lecture course -
       $100. each city - get clubs
to join with the teachers -
       How to meet free time?
       Wants Kansas, Nebr. & Col.
       added to his territory.

Dec 19  Award of prizes for Color Note books at N.A.S.
        (Here follows a description.)

Jan 23  Tested 2nd set of water colors.
        Yellow and blue are O.K.
        Green and Purple " still too dark.
        Red has been darkened too much and is slightly
        yellow.

Jan 26  Mr. James Hall at studio.
        Sees charts for the first time and photometer-
        Says Sargent cannot find chroma in the dictionary-
        Intends to use my system in 1/3 of city - and
        Ross in other 2/3. Acknowledged he is in "the
        infant class as to color".

Jan 28  Mr. Putnam - to suggest getting rec. from
        Dr. Ballist. Mr. Gunnison - to talk over plan
        for a pamphlet on "suggestions for the use of
        the Munsell Crayons and Water Colors" - Edition
        of 20,000 - to cost about $250. "Cheaper than
        a man's time to talk to the supervisors and
        teachers. Cannot understand 152 small cards
        given away. Says I had only 5 large spheres -
        Will have his ad. in the Centre of Vision -
        mention the Munsell colors. Must have water colors
        box (wholesale for 27 cents) of 10 colors and
        pamphlet ready before the Cleveland meeting.
Mr. Howland and Mr. Kimball at studio 4-5:30
See MSS of new color pamphlet "Results" - and
color plates - Discuss processes to reproduce
the plates. Agrees to give me 5000 of each
plate in return for use of my book plates (copy-
righted) - Edition of 25,000 (Said Haney's
plate - lithographic - cost him $600.)
Will go right ahead as soon as I give him the
originals.

11 Third set of Water Colors to test.
    R - G - P (Y & B already O.K.)
    R too purple and gray
    P too dark still G - O.K.

14 Mr. Gagnon in train - Says Carter's chemist
uses a colorimeter for the inks - thinks my
photometer might be better for him. Also
allows me to use his name with Forbes Co.
(Mr. Shepley).

Mr. David M. Small for the Forbes Litho. Co.
to figure on 3 plates - for new circular "Results"
100,000 - $15-$20 per 1000 - 4x5½ work -
4 colors.
Miss Patrick comes to see the new circular -
Thinks teachers would pay 10 cents for such
examples.

19 Mr. Sterne of Geo. Wacker - Lithographers - to
figure on 3 plates.

20 At Pope School - Somerville, with Miss Patrick,
Mr. Sargent, Mr. Leavitt, Miss Patterson and
Miss Whittier.
Saw work in several grades - also block prints.
Mr. S, claims the BS complement to R will be
different in Palette Mixtures - from that obtained
by Maxwell discs - That the vibrations on the
retina - in the first case are subtraction
" second " " additions.
who says there is more B & G in nature than R
I ask why daylight is white? If above is true.

26 Delivered 3 plates to Geo. H. Walker Co. 211 High
St. - Proofs to be submitted in 3 weeks - and
printing done in 3 more -

28 Took MSS of new "Results" to Mr. Gilman.

Sargent quotes Judd that the complement of R
obtained by Maxwell discs will suffer a change
if made on the palette. I say yes - it will
vary with every individual and cannot be measured accurately as by the discs. Amount of each pigment - method of mingling-length of manipulation - all effect the result. To make any measure valuable it must be definite and related to a standard.

Mar 12
Chroma - See page 1 May 1904 Balance on two levels -
Diagonal of V (geometric) C (arithmetic)

15 At W & H's - Delivered MSS of "Children's Studies in Measured Color" and decided on enamel colors for Water Color Box (7 & 10 pan) Figure on 25,000 booklets (cover - 8 pages $282. by G.H. Ellis & Co. (3 color insets furnished)

18 Called at Geo H. Walker & Co. 211 High St. to see proof of Color plates - 9 stones already printed.

19 Students at N.A.S. (Public School Class) make tests of middle gray with the photometer. Sargent calls.

22 4-5:30 Miss Patterson of Arlington Heights. Sup. of Drawing with Miss Potter and Miss Whitter under Mr. Sargent. Sees large and small charts, photometer, and tests chroma. Thinks of latter as growing tighter. Uses intensity for chroma. Feels much interested and has made charts for her teachers (20 lessons) - but has only crayons to work with. Thinks 3-5 years needed to incorporate it in the school. I impress need of spheres, cards, and books to aid the teacher's imagination.

Mar 11 At W & H factory in Waltham 3:45-5:45 with Mr. Howard and Mr. Anderson - Met Mr. Perry. Tested new water colors -
Less white (silesia) the better. Ground should furnish white. First full brush-full should match the enamel cards.
Camboge not the base for Y.
Red oxide good for R.
Tow two boxes from factory - to design upon

Munsell

WATER COLORS 212
Apr 9 3:30-5:15 At Studio - Dr. A. E. Winship (editor Journal of Education) and Mr. Putnam.

Show photometer, color tree, sphere, charts - large 60 H & V sets, mask - to find complement, discs - to disprove old theories.

Answer questions, why Bradley is wrong - is this patented? what can Prang & "the others" do?

10 Sample of Middle Grey furnished W & H. Mr. Howland at studio with Dr. Winship's appreciation. Depreciate his placing me in line with Maxwell, Helmholtz and Rood - but otherwise think it strong. (O.K. on water colors except purple: - too dark and too weak.)

Mass. Board of Education, Boston, April 10, 1907.

Wadsworth-Howland & Co., Inc.

Gentlemen: - It was a rare privilege to spend a half-day in the studio of A. H. Munsell, enjoying his unfolding of the development during the last fifteen years of a scientific color scheme by which pigment colors can be recorded, remembered and reproduced with almost geometrical precision. I had read his book, "A Color Notation," but not until I had looked into his photometer, and followed the development of his color globe and color charts, did it appeal to me as an important discovery. Unless all signs fail, Mr. Munsell has added a step in the scientific development of Maxwell, Helmholtz, and Rood. It is nearly fifty years since Maxwell challenged the theories of Frewster. Helmholtz improved upon Maxwell's presentation of the case, and in 1879 Rood's "Modern Chromatics" opened up a new order of things; but it has been left to Munsell to give a complete scientific development of a measured color system.

Yours,

A. E. Winship.

15,000 color plates - 5000 plate 1) deposited with 2) Ellis & Co. for
" " 3) new edition of book.

May 2 Ordered a stereo of the first seven pages of the pamphlet @ 57.00 for the set.
Apr 13 3:30-5:15 Mr. Bailey at studio.
Show as on Apr 9.
"There is no doubt you are right."
"Only can the youngest child respond to such
quiet colors.
"Give them the color tree first - 5 strong colors.
weak "
"opposite pairs
"Then the color sphere the 4th year.
I asked if a few generations could not shorten it
to the 2nd year?

Apr 15 2-2:30 Mr. Morris sees charts, etc. as on Apr. 9.
23 Mr. Furlong " "
24 Mr. Lyon to lunch.
25 Dr. Winship at City Club 1-2
Hears MSS for Cleveland address.
27 2:30-4:30 Mr. F. L. Burnham - to see photometer
and measure colors -
"I believe in this thoroughly." Must use it this
summer. Talks over Daniels (for Miss B's place
in P.S. class) Bailey and Sargent. I tell him
why the H.A.S. was started - how normal work was
at first in all the classes.

May 3 E. H.S. Room 33 100 odd teachers from 4
Boston schools under Miss Margaret Patterson-
Supervisor. Also Mr. Sargent and Mr. F. R.
Miller. Built up color solid -
Value scale - trunk of tree
Chroma " branches (too complicated
Hue " fastened ) for elementary
work
Cut out color sphere - cage of 10 meridians
5 middle hues hung in place - (easily grasped
by child)

Describe photometer and its accuracy - test of
personal bias - even of color blindness -

Showed large charts 300 - 600 - Horizontal section of
small " 20 - 80
Vertical F - FP Vertical " "
Described Balance - and proved that of the sphere
also unbalance of

Middle colors the proper entrance for children -
20 sheets of grade work from Somerville
plates, bags, and sheets of crayon work from
Boston.
Urged to speak again by Miss Sargent and Miss Paterson. I said that the subject was too important to be nibbled in odd moments; should be studied from my book. That if the city of Boston deemed it of any value, they should give me as expert - 3-5 lectures to all the teachers and at proper compensation. That invitations came from all sides to speak; even from distant cities; and that I could not respond gratuitously to them all.

(On page 52a there appear diagrams representing the photometer, color tree, spheres, etc. shown on May 3.)

May 7-13

Cleveland trip - left N.Y. 10 P.M. Wed. for Pittsburg: spent a.m. at Carnegie Inst. and too 2:30 for Cleveland. 8 p.m. (9) reception at Art school.

Friday 1:45-2:15 "A new color system - with demonstration. Hall of Chamber of Commerce. - Discussion until 5:15.

At this Dow, James Hall, Miss C- , D'Hanzy, Mr. Stark.

Why is orange omitted?
Can the child react to such quiet color?
What is "raw color"?
Is nature "seldom right"?
Must we segregate children from nasturtium and sunset?

5:30-8 Dinner at Holleadaen to Mr. B. and self - by 20 former N.A.S. graduates now teaching.

Sat. p.m. - Automobile (Mr. Wardwell's) tour of parks and Wade ---
Sat 7 p.m. Dinner at Miss Norton's.
Sun.1:30 " Mrs. Stevenson Burke's 7:40 train for home.

Put up at Union Club by H.H. Johnson.
Mr. Royal R. Farnum and Miss Georgie Norton arrange everything.

May 15 9° 9:30 Miss Amy Roberts (Minneapolis Supt. of Art) calls with Mr. Putnam. Thinks the new Munsell water colors a great gain for teachers. Asks what grade the system can be introduced. I quote Burnham, Miss Fauen and Bailey. She will at once take it up with High School teachers - and carry it further down as rapidly as possible and safe.

Sees no reason why both strong and middle colors may not be shown at the start - side by side.
May 17
Wrote Miss Cheney and sent back pose, landscape and stumped color work.

Miss Sharpe and M— of Teachers' Class at N.A.S. bring back my school exhibit and see canvasses.

May 27
Address before Eastern Ass'n of Physics Teachers-Brookline High School - 2:30-4 with spectrum and color mixing. Prof. Duff, Mr. Black, Gilley, Miller.

June 3
Mr. Miller brings me the sphere and sees my color discs - color glasses, etc.

wheel cir. 210 in. 3250(25') rev. per min.

Locomotive wheel turns from 20-50 times per min.

Can rotating color card (chroma test) serve as another ground as speedometer?

June 4
Mr. Thurston at studio - Sees Somerville, "landscape and pose" color work - sphere, enamels, w.c. and crayons. Explains Theosophic ideas of "aura" good and bad.

5
I call on Mr. Howland at store and ask him if his royalty is not meagre as compared with 15-20 on other materials?

Says 12 boxes must job for 2.51 - 3.15

retail " $1.20 - single box .35

to compete. May have to reduce price. Says he does not make more than that himself (02). I ask to have it reconsidered.

June 12
At studio 4-5:30

Mr. W.J. Ahern, S.J. - colleague - Miss O'Connor and Miss F.J. Davis see color trees, photometer, colorsphere, charts and school work.
A. Shaft geared or frictioned to drivers.

B. Color cards on spring stems.

C. Color field - fixed (obscured when cards are vertical.)

D. Deflection of color cards at high speed, exposing color field in proportion to the rate of speed.

Closed - green only
Opening - disclosed a red interior
Open wide - red only

3 or more petals with spring and weight registering speed on card.
Sept 17 Studio 4-5 Miss Melzard and Miss Morton - Chelsea schools - To ask about notation (chromas) How middle colors are obtained - Why "orange" is left out.

Oct 4 G. H. Ellis & Co 272 Congress St. Left MSS of 2nd Edition (in loose proof of book) 5 plates - for colored frontispiece 25 cuts - to insert in text (5 more to be made) Cost of 1000 copies new edition - $65.44 Pd W & H Co. 85. pd. for new cuts plates (Geo.H.Walker) Mr. Putnam calls to talk over the color work - Asks how to get Sargent "straight and out". Says Cochrane acknowledges my work the best and most scientific yet. Says Haney does not seem resentful of the criticism.

Oct 5 At M.N.A.S. - Miss Patterson calls to see about having the 3 lectures before the Teachers Club as Sargent does not want them - Tells Miss Potter's "order" not to use the color crayons, and Hopkins' refutation of her statements.

Oct 14 Studio 12-3 Louis G. Monte - Goes to lunch, then returns to see charts, tree, school work, etc. Wishes me to come up and lecture at Westfield Normal School. Tells of summer in Europe - meeting Loeser, Gamba, Sorella and others.

Studio 3-3:30 - Arthur W. Dow - Teachers' College, NY - Wishes a course of 3 lectures (Horace Mann School Manual Training (Physics Dept, Speyer School Asks where to use crayons and) 1-5 water colors - 5-8

Oct 15 Mr. Gunnison telephones that Prang's agent (Fraser) is spreading a statement that Miss Patrick has had to give up the Munsell system - which is also, she being more enthusiastic than ever as to its superiority over all other systems. (Has 16 copies of the book in stock.)

Tel. Mr. Pritchard who says Fraser told him my system was not adopted in any city - too complicated and revolutionary, but did not mention Miss Patrick.

Oct 29 Miss Gulliver telephones to ask about lectures to the Boston Teachers' Club.
Nov 2  Showed Mr. Howland and Mr. Gunnison that 3 of the new batch of water colors need correction. Emphasize necessity of **testing** each batch before letting it be made up.

6 11:30-L Mr. Harry W. Morse of the Jefferson Lab. Harvard - Brings Dr. Ostwald's book - and his new spectroscope (nicol and scale). Sees Dutch studies and I give him copy of Color Notation.

18 Frazier (Prang Ed. Co) telephones about Miss Patrick's letter - and I advise him to write a courteous apology. Tell him it is a question of truth and the golden rule: - not of business. Next day he calls upon me at the N.A.S. - talks loosely - and I tell him I haven't time to correct his mistakes - but as a gentleman he should apologize for injury done to - and misrepresentation of - Miss Patrick. Also say I do not believe Mr. Cochrane wishes him to employ such methods.

Dec 23 Mr. Putnam calls to suggest summer school course in my color system (Chicago) and leaves letter by Favor Ruhl & Co.

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6 new cuts - 3.66
2 " " 2.

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Jan 2  Miss Chumard (B.02) brings Miss Clement to studio. 56.
1908 Wrote Mr. C. A. Brodeur - Prin. Westfield Normal School.

1. Color Measures vs Color Guesses -
( Tests of color vision
3 lectures 2. Color records - and memorization of
( color groups - a notation
3. Color design - decorative and picturesque,
 steps in training the color sense,

Jan 10 10-11 In Mr. Turner's office - Pope Bldg. to see Lumiere plate. I compare old ideas of primaries with new. Explain apparent contradiction in pigment mixture - " spectrum proof of R, G, VB (also color-blind)
Retinal net work of R G & VB fatigue of one set of nerves - produces temporary blindness -
and the other nerves produce complementary sensations.
Jan 14  M.N.A.S. 10:30-12 1st color lecture - "Color Guesses vs Color Measures."

19 Library - C.H. Mr. Allen returns 3 color charts. Lithographers claim they can make them, but by discarding 4 in 5.
Mr. A. suggests a stencil; each color to be brushed in - I then ask if large sheets 22x28 - if my enamels cannot better be cut by dies and the colors pasted on a printed diagram?


Feb 5 After looking over proof - Mr. Finlay decides to call for new plates.

20 Rec. Royalty acct. and cheque from W. H. & Co. Also letter from Chicago kindergarten Institute asking for (Color Tree (Color Charts (Colored Papers (not enamels)

21 Took Color Tree and Skeleton Sphere to Mr. Perkins to consider if they infringe on the color sphere patent and if any further protection is needed.

Jan 7 Miss Batchelder and Miss Hathaway call my attention to crayons that have swerved from the middle colors.

Why is a gray made of complements - a satisfactory test? Will this be ( ) overthrown by a newer theory?

10 dies @ 30 - 300

filing cabinet of ten shelves - each a level of value.

Feb 24 Noon. Took Color Tree to W & H - Showing it to Mr. Howland and Mr. Gunison. 7 p.m. Mr. Putnam calls. Wants public lecture on the System. (W & H would give a lunch.) Has seen Miller Copeland and Mason in Phila. Miss Curtis - in Brooklyn Mr. Hopkins - Baltimore Mr. Daniels, Monte, Richards, Andrews, Hunt, etc. in Mass.