

YOUNG B. KIM

**INTERNATIONAL CONGRESS**  
**on**  
**THEORETICAL PHYSICS**

*September 17 to 21, 1956*

**University of Washington**  
**Seattle, Washington**

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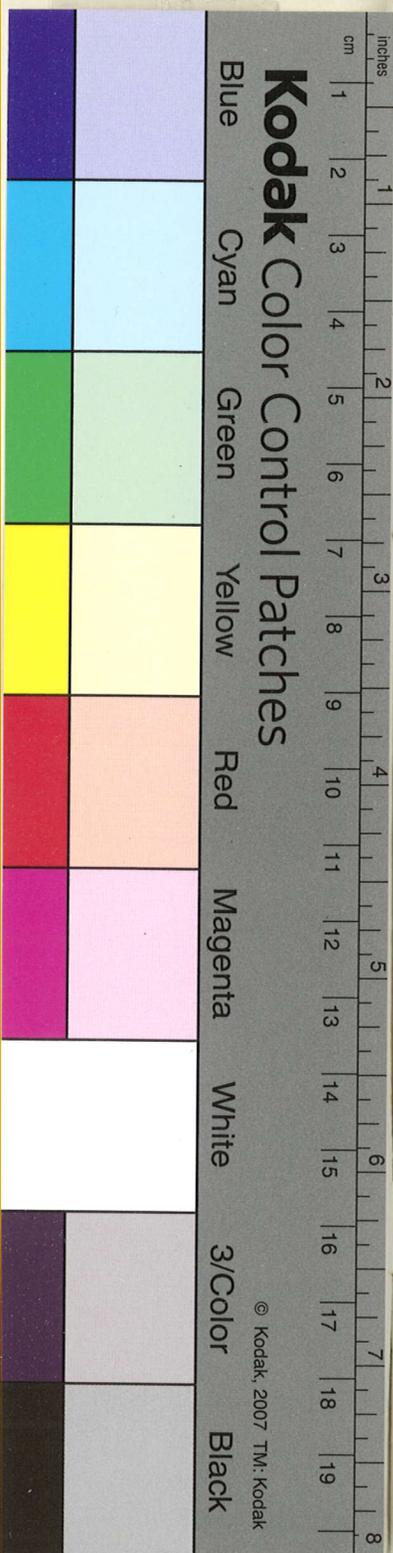
J. R. Oppenheimer  
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F. Seitz  
V. F. Weisskopf  
E. P. Wigner  
J. H. Manley, Executive Secretary

## Local Committee

John S. Blair  
Ernest M. Henley  
Boris A. Jacobsohn

## Conference Coordinator

William L. Phillips



## PROGRAM

### *Sunday, September 16, 1956*

6:30 p.m. Registration, Physics Hall, University of Washington

### *Monday, September 17, 1956*

8:30 a.m. Registration, Health Sciences Building,  
University of Washington

9:30 a.m. Plenary Session, Health Sciences Auditorium  
Eugene P. Wigner, Princeton University, Chairman

9:30 Welcome: John H. Manley, University of  
Washington

9:45 Relativity: V. Bargmann, Princeton University

11:00 Coffee

11:15 Nuclear Physics: V. F. Weisskopf, Massachusetts  
Institute of Technology

12:45 p.m. Lunch, Student Union Building

2:00 p.m. Plenary Session, Health Sciences Auditorium  
Satio Hayakawa, Kyoto University, Chairman

2:00 Shell Model: J. H. D. Jensen, University of  
Heidelberg

2:45 Collective Models: B. R. Mottelson, CERN

3:45 Coffee

4:15 Nuclear Reactions: A. M. Lane, United Kingdom  
Atomic Energy Authority

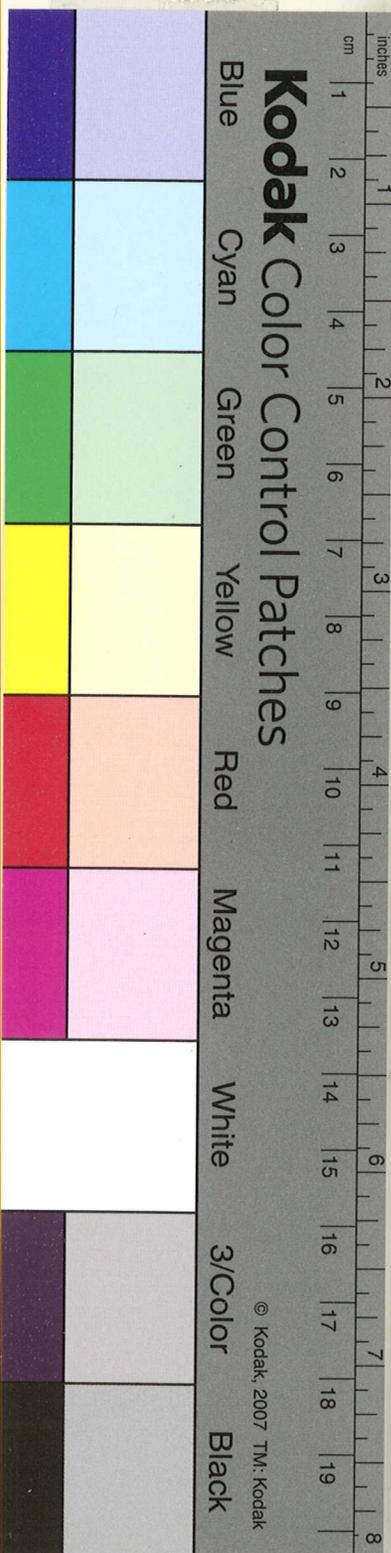
7:00 p.m. Cocktails and Congress Dinner, Rainier Club, Fourth  
Avenue and Marion

### *Tuesday, September 18, 1956*

9:00 a.m. Plenary Session, Health Sciences Auditorium  
G. E. Uhlenbeck, University of Michigan, Chairman

9:00 Statistical Mechanics: L. Van Hove, University  
of Utrecht

10:00 Coffee



10:30 Statistical Mechanics Panel: G. E. Uhlenbeck, University of Michigan, Chairman; K. Husimi, Osaka University; L. Onsager, Yale University; I. Prigogine, Free University of Bruxelles; J. de Boer, University of Amsterdam; L. Van Hove, University of Utrecht

12:45 p.m. Lunch, Student Union Building

2:00 p.m. Plenary Session, Health Sciences Auditorium  
T. Muto, Tokyo University, Chairman

2:00 Solid State: C. Kittel, University of California

3:15 Coffee

3:45 Superfluidity and Superconductivity: R. P. Feynman, California Institute of Technology

5:30 p.m. Informal gathering, Ballroom, Meany Hotel

8:00 p.m. Discussion Groups

Statistical Mechanics: T. H. Berlin, Johns Hopkins University, Chairman; 334 Physics Hall

Two-Nucleon Problem: M. M. Levy, University of Paris, Chairman; 320 Physics Hall

### *Wednesday, September 19, 1956*

9:00 a.m. Plenary Session, Health Sciences Auditorium  
J. R. Oppenheimer, Institute for Advanced Study, Chairman

9:00 Quantum Electrodynamics and Field Theory Panel:  
J. R. Oppenheimer, Institute for Advanced Study, Chairman; W. Thirring, University of Bern; H. P. Lehmann, CERN; E. H. Wichmann, Institute for Advanced Study; J. Schwinger, Harvard University; S. Tomonaga, Tokyo University of Education; N. N. Bogoliubov, Academy of Sciences, Moscow

10:30 Coffee

11:00 Quantum Electrodynamics and Field Theory Panel  
(continued)

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G. E. Uhlenbeck, Uni-

- 12:45 p.m. Lunch, Student Union Building
- 2:30 p.m. Sightseeing Cruise, Puget Sound  
(Boat leaves dock south of Health Sciences Building at  
2:30 p.m.)
- 5:30 Buffet Dinner on Cruise
- 8:30 Boat returns to dock south of Health Sciences  
Building

*Thursday, September 20, 1956*

- 9:00 a.m. Plenary Session, Health Sciences Auditorium  
A. Pais, Princeton University, Chairman
- 9:00 Meson Theories: H. Yukawa, Kyoto University
- 9:30  $\pi$ -Mesodynamics: F. E. Low, Massachusetts Institute  
of Technology
- 10:45 Coffee
- 11:15 Weak Interactions: L. Michel, Institute of Lille
- 12:45 p.m. Lunch, Student Union Building
- 2:00 p.m. Plenary Session, Health Sciences Auditorium  
A. Pais, Princeton University, Chairman
- 2:00 New Particles: C. N. Yang, Institute for Advanced  
Study
- 3:45 Coffee
- 5:45 p.m. Informal gathering, Ballroom, Meany Hotel
- 8:00 p.m. Discussion Groups
- Low Temperature Solid State: R. P. Feynman, California  
Institute of Technology; 314 Physics Hall
- Nuclear Reactions: L. Rosenfeld, University of Manchester;  
334 Physics Hall
- $\pi$ -Mesons: G. F. Chew, University of Illinois; 320 Physics  
Hall

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## Friday, September 21, 1956

9:00 a.m. Discussion Groups

Solid States: A. Abragam, Center of Nuclear Studies of Saclay, Chairman; 314 Physics Hall (continues until 12 noon)

Nuclear Models: J. A. Wheeler, Princeton University, Chairman; 334 Physics Hall (continues until 10:30 a.m.)

10:00 a.m. Field Theory, Strange Particles, and High Energy: R. Serber, Columbia University, Chairman; 320 Physics Hall (continues until 12 noon)

10:30 a.m. Coffee

12:45 p.m. Lunch, Student Union Building

2:00 p.m. Plenary Session, Health Sciences Auditorium

M. S. Vallarta, National Institute of Scientific Investigation, Mexico, Chairman

2:00 Origin of Cosmic Rays: P. Morrison, Cornell University

3:00 Stellar Energy Sources: E. E. Salpeter, Cornell University

4:00 President's Reception, Student Union Building

7:00 p.m. Cocktails and Congress Dinner, Washington Athletic Club, 1325 Sixth Avenue

## Saturday, September 22 --- Entertainment Events

10:00 a.m. Sightseeing bus tours to Cascade Mountains

10:00 a.m. Sightseeing tour of Seattle area

2:00 p.m. Football game, University of Washington and University of Idaho, University of Washington Stadium

8:30 p.m. Theater performance, *The Four Poster*, University of Washington Showboat Theatre

## INVITED PARTICIPANTS

- |  |  |
|--|--|
| Abragam, Anatole<br>Commissariat A L'Energie<br>Atomique, Saclay           | Condon, E. U.<br>Washington University, St. Louis            |
| Barashenkov, Valadin<br>Academy of Sciences, Moscow                        | Dalitz, Richard Henry<br>University of Birmingham            |
| Bargmann, V.<br>Princeton University                                       | de Boer, J.<br>Universiteit Van Amsterdam                    |
| Bergmann, Peter G.<br>Syracuse University                                  | de Shalit, Amos<br>Weizmann Institute of Science             |
| Berlin, T. H.<br>Johns Hopkins University                                  | Drell, Sidney<br>Stanford University                         |
| Bhabha, Homi Jehangir<br>Tata Institute of Fundamental<br>Research, Bombay | Durand, Emile<br>Université de Toulouse                      |
| Blatt, John M.<br>University of Sydney                                     | Eden, Richard J.<br>University of Manchester                 |
| Bloch, C.<br>Commissariat A L'Energie<br>Atomique, Saclay                  | Feenberg, Eugene<br>Washington University, St. Louis         |
| Bloch, Felix<br>Stanford University  | Feld, Bernard T.<br>Massachusetts Institute of<br>Technology |
| Bogoliubov, N. N.<br>Academy of Sciences, Moscow                           | Feldman, David<br>Brown University                           |
| Breit, Gregory<br>Yale University  | Feldman, Gordon<br>University of Washington                  |
| Brueckner, Keith A.<br>Brookhaven National Laboratory                      | Feshbach, Herman<br>Massachusetts Institute of<br>Technology |
| Butler, Stuart Thomas<br>University of Sydney                              | Feynman, R. P.<br>California Institute of Technology         |
| Caianiello, Eduardo R.<br>Università di Napoli                             | Foldy, Leslie L.<br>Case Institute of Technology             |
| Capps, R. H.<br>University of California                                   | Foley, Henry M.<br>Columbia University                       |
| Case, Kenneth M.<br>University of Michigan                                 | Frank, Frederick Charles<br>University of Bristol            |
| Chew, Geoffrey F.<br>University of Illinois                                | Frohlich, H.<br>University of Liverpool                      |
| Christy, R. F.<br>California Institute of Technology                       | Fujioka, Yoshio<br>Atomic Energy Commission of<br>Japan      |
| Coester, Fritz<br>State University of Iowa                                 | Fukuda, Nobuyuki<br>Indiana University                       |

Gamow, George George Washington University	Koba, Ziro Kyoto University
Gasiorowicz, Stephen G. University of California	Kohn, Walter Carnegie Institute of Technology
Gell-Mann, Murray California Institute of Technology	Konopinski, E. J. Indiana University
Hamermesh, Morton Argonne National Laboratory	Korringa, Jan Ohio State University
Hayakawa, Satio Kyoto University	Koshiba, M. University of Chicago
Hayashi, Chushiro Kyoto University	Kotani, Masao Tokyo University
Hill, David Los Alamos National Laboratory	Krishnan, Sir K. S. National Physical Laboratory of India
Horie, Hisashi Princeton University	Kubo, Ryogo Tokyo University
Horowitz, J. Commissariat A L'Energie Atomique, Saclay	Lane, Anthony M. United Kingdom Atomic Energy Authority
Husimi, Kozi Osaka University	Lax, Melvin Bell Telephone Laboratory
Inglis, David R. Argonne National Laboratory	Lee, T. D. Columbia University
Jensen, J. Hans D. University of Heidelberg	Lehmann, Harry P. CERN
Jost, Res Wilhelm Physikalisches Institut, Zürich	Lepore, Joseph V. University of California
Kac, Mark Cornell University	Levy, Maurice M. Université de Paris
Kamefuchi, Susumu Nagoya University	Lopes, J. Leite Universidade do Brasil
Karplus, Robert University of California	Low, Francis E. Massachusetts Institute of Technology
Kawaguchi, Masaaki Kyoto University	Löwdin, Per-Olov University of Uppsala
Kittel, Charles University of California	Luttinger, J. M. University of California
Klein, Abraham University of Pennsylvania	Machida, Shigeru Rikkyo University
Klein, Oskar B. Institutet för Mekanik Och Matematisk Fysik, Stockholm	Marshak, R. E. University of Rochester

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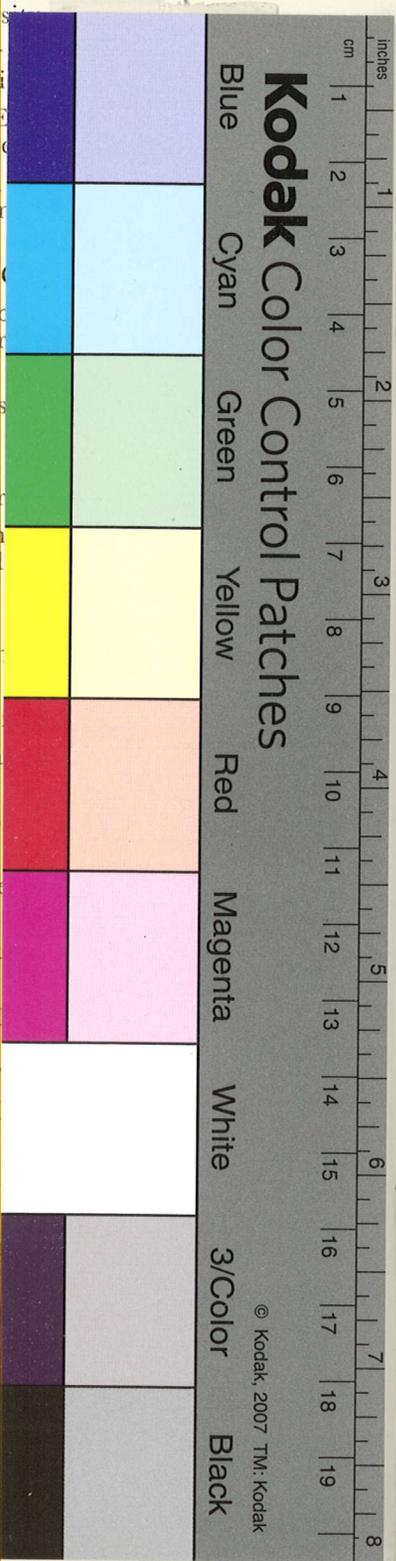
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Montroll, Elliott W.  
University of Maryland

Morita, Masato  
Kobayashi Research Institute

Morrison, Philip  
Cornell University

Moshinsky, Marcos  
Universidad de Mexico

Mottelson, Ben R.  
CERN

Muto, Toshinosuke  
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Nakamura, Seitaro  
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Nakamura, Tsuto  
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Schwinger, J.  
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Seitz, Frederick  
University of Illinois

Serber, Robert  
Columbia University

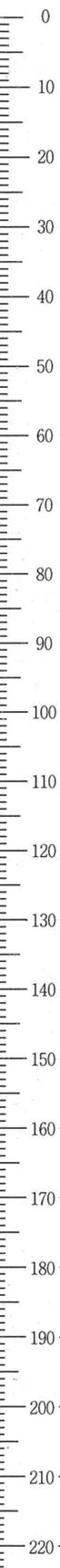
Shockley, W.  
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Laboratory

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Brookhaven National Laboratory



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Princeton

Wigner, Eugene P.  
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Winther, Aage  
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Wolfenstein, Lincoln  
Carnegie Institute of Technology

Yamashita, Jiro  
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Yennie, Donald  
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Yosida, Kei  
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Yukawa, Hideki  
Kyoto University

## ENTERTAINMENT

Many of the social occasions during the week of the Congress have been made possible by contributions to a fund for the entertainment of Congress participants by the following corporations.

Avco Manufacturing Corporation  
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Hughes Aircraft Company  
General Motors Corporation  
Glenn L. Martin Company  
Lockheed Aircraft Corporation  
Ramo-Wooldridge Corporation  
Rand Corporation  
Sperry Gyroscope Company  
Westinghouse Electric Company

Ladies of Congress participants are invited to all entertainment functions during the Congress. Special events for ladies will be arranged by Mrs. J. H. Manley.

## GENERAL INFORMATION

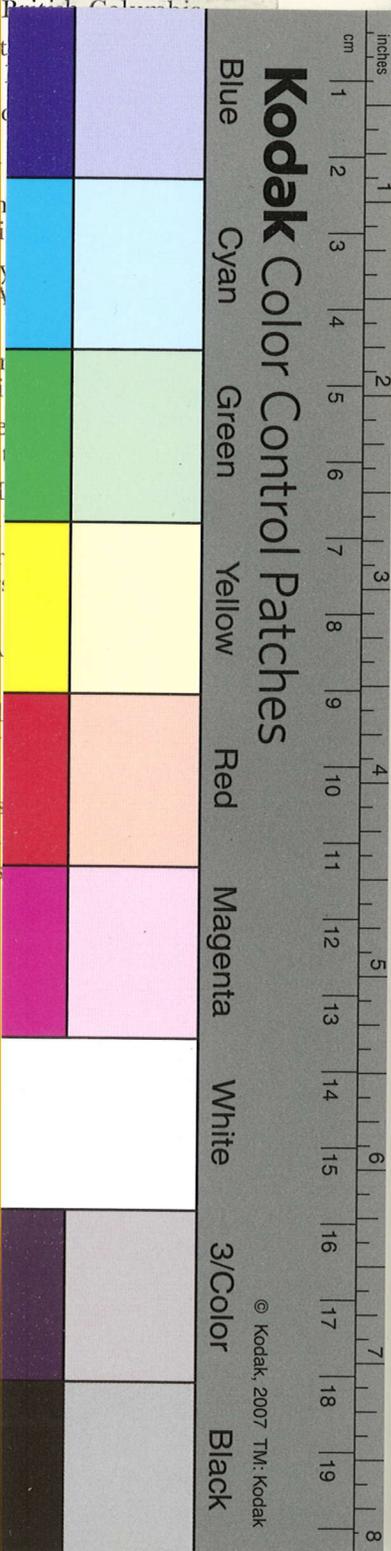
The Congress information desk in the lobby of the Health Sciences Building will be open from 8 a.m. to 5 p.m., September 17 through 22. It may be reached by telephone at *Melrose 0630, Extension 2037*.

Details concerning luncheons, entertainment events, and local transportation will be found in a sheet of information supplied each participant at registration.

Slides which are to be shown at plenary sessions and, if available, duplicate copies of prepared papers should be left at the information desk an hour before the paper is to be presented. Slides will be returned to the speaker personally.

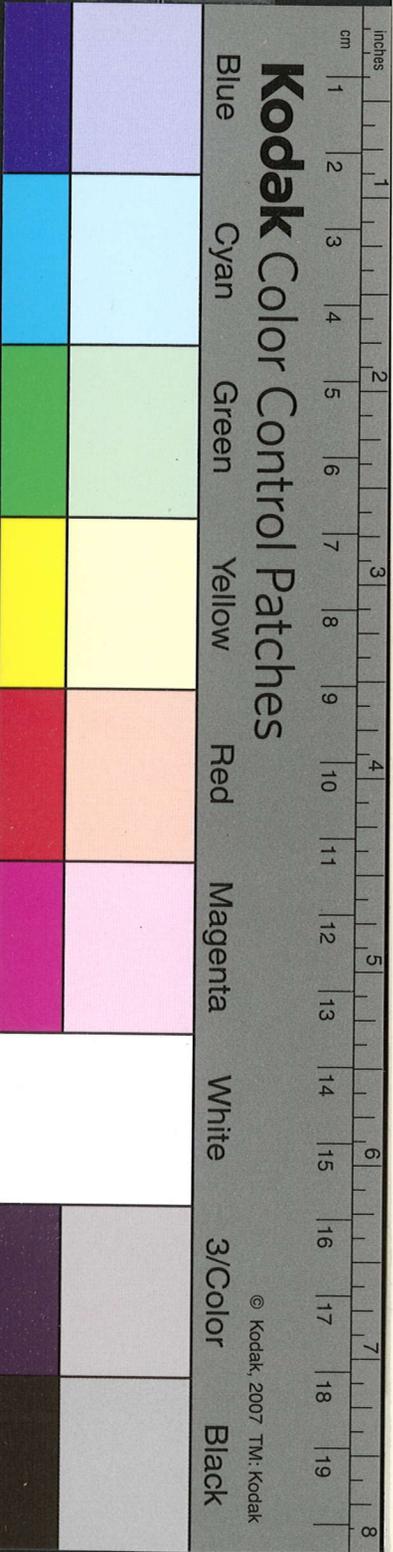
At the close of the Congress the Advisory Committee will determine the means by which the Congress proceedings are to be made available. Participants will be advised of their decision.

Congress participants are welcome to inspect the facilities of the University Physics Department at any time.





# Notes





# Notes

