
classe3as
Emanuele
Anna Maragno
GP
Alessandro
Lukas Ongaro
Alessandro Mor...
Federico Nacci
amedeo cioffone
bernardo.tellini...
Pisane PLACIDI
Utente Zoom


2002
IEEE MILESTONE
Giovanni Giorgi's Contribution to the Rationalized System of Units, 1901-1950
Giovanni Giorgi proposed rationalizing the equations of electromagnetism. His proposal added an electrical unit to the three mechanical units of measurement (meter, kilogram, second). While he was a professor at the University of Rome, the International Electrotechnical Commission adopted a version of Giorgi's system. His ideas formed the basis of the universally adopted International System (SI) of units, commonly used in all fields of science and engineering.
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The cgs systems of units
James Clerk Maxwell
William Thompson
Quantity
electrostatic cgs
electromagnetic cgs
Current
statampere
3.33 pA
abampere
10 A
Voltage
statvolt
300 V
abvolt
10 nV
Resistance
statohm
899 GΩ
abohm
1 nΩ
Capacitance
cm
1.1 pF
abfarad
1 MF
Inductance
—
—
abhenry
1 nH
Very different and uncomgment unit sizes

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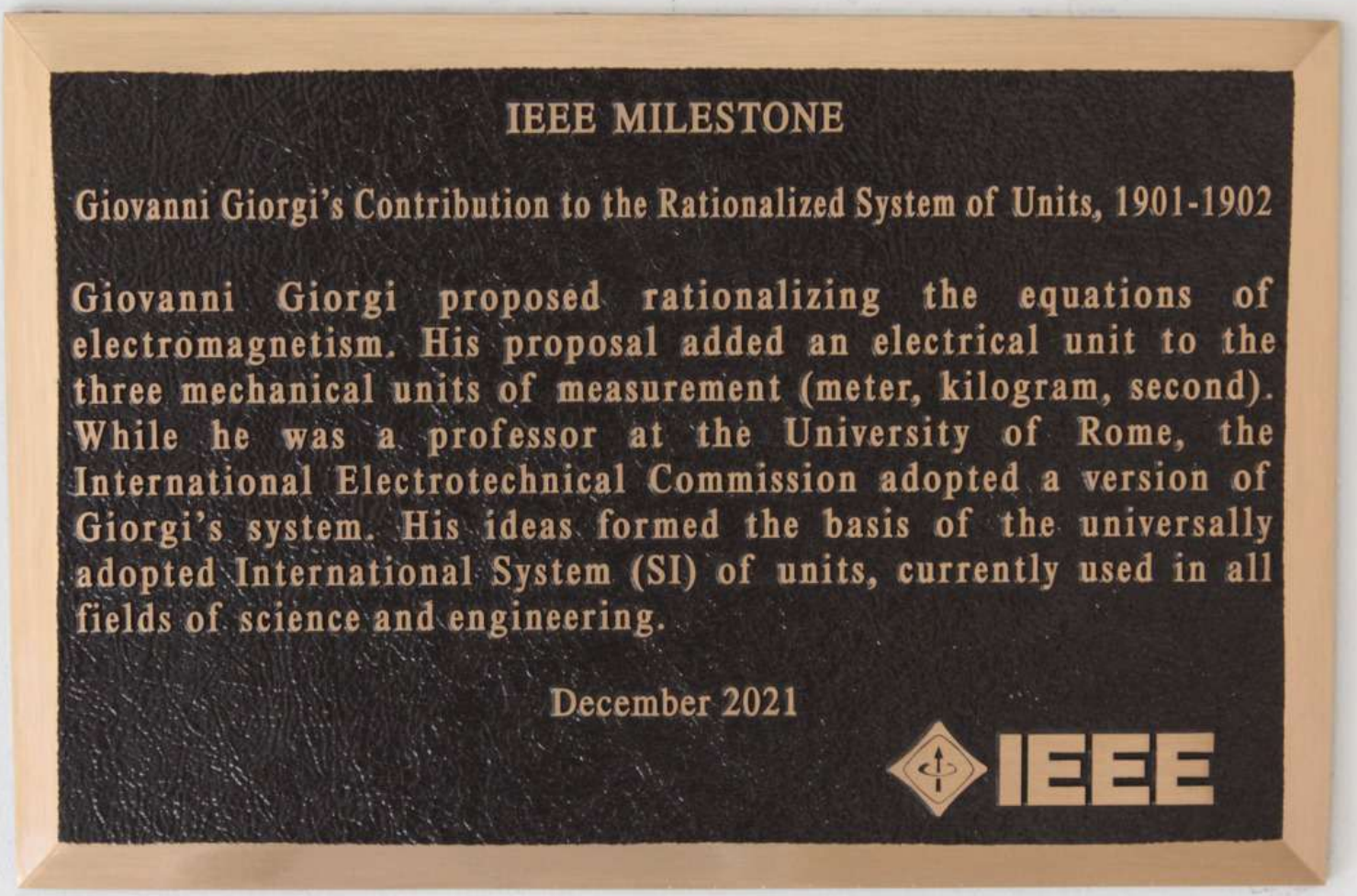
Alessandro
Lukas Ongaro
Alessandro Mor...
Federico Nacci
amedeo ciaffone
bernardo.tellini...
Pisana PLACIDI
Utente Zoom
Antonio


IEEE MILESTONE
Giovanni Giorgi's Contribution to the Rationalized System of Units, 1901-1902
Giovanni Giorgi proposed rationalizing the equations of electromagnetism. His proposal added an electrical unit to the three mechanical units of measurement (meter, kilogram, second). While he was a professor at the University of Rome, the International Electrotechnical Commission adopted a version of Giorgi's system. His ideas formed the basis of the universally adopted International System (SI) of units, currently used in all fields of science and engineering.
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