```
#basic graph
reset
set termoption enhanced
#font
set title font ",16"
set key font ",12"
#Define Variables
usaDecX=1776
usaDecY=3
railX=1811
railY=3
civilX=1861
civilY=3
carX=1886
carY=3
ww1X=1914
ww1Y=5.5
ww2X=1939
ww2Y=6
moonX=1969
moonY=17
sovietX=1990
sovietY=12
set title "Law Dome Ice Core Data: Growth Rates of CO_{2}, CH_{4}, and N_{2}O\n [events
labeled solely for time perspective]"
set autoscale x
set xrange [1700:2004]
set xtics 50
set mxtics 5
set mytics 2
set zeroaxis
set origin 0.0, 0.0
```

set key at 1715, 17 top left set key spacing 1.5 set key noautotitle

#Add lines at event dates

set arrow 1 from usaDecX,usaDecY to usaDecX,0 nohead set arrow 2 from railX,railY to railX,0 nohead set arrow 3 from civilX,civilY to civilX,0 nohead set arrow 4 from carX,carY to carX,0 nohead

set arrow 5 from ww1X,ww1Y to ww1X,0 nohead

set arrow 6 from ww2X,ww2Y to ww2X,0 nohead

set arrow 7 from moonX,moonY to moonX,0 nohead

set arrow 8 from sovietX, sovietY to sovietX, 0 nohead

#Add labels

set label "USA Declaration\nof Independence" at usaDecX,usaDecY rotate by -45 right

set label "First Railroad" at railX,railY rotate by -45 right

set label "American Civil War" at civilX, civilY rotate by -45 right

set label "Patented Petrol\nPowered Car" at carX,carY rotate by -45 right

set label "World War I" at ww1X,ww1Y rotate by -45 right

set label "World War II" at ww2X,ww2Y rotate by -45 right

set label "Moon\nLanding" at moonX,8 rotate by -45 right

set label "Soviet\nUnion\nFalls" at sovietX, sovietY rotate by -45 right

#plot

plot "law2006.csv" using 1:3 title "growth rate of CH\_{4} (ppb/yr)" with lines lw 2, "law2006.csv" using 1:7 title "growth rate of CO\_{2} (ppm/yr)" with lines lw 2, "law2006.csv" using 1:10 title "growth rate of N\_{2}O (ppm/yr)" with lines lw 2, 0 with lines lc rgb '#000000'