# Renye Profile Synlicsis 

## SIWPL GIOUJ Meeting <br> 100 otoler 2000

## By Heralil Dilley



## Oveniew

## Project Coal

\% Rey Ifaciny
a Henye Profles and Ranye Imeyes Itghing Woidels
POU-Hanye

## Project Coal

## "Tanks Uniler Ifees"

## Bay Ifaciny - 21



## Hey Ifaciny - Math in 21

$$
x_{o}=\frac{d_{o}}{d_{s}} x_{s}
$$

Object Intersected


## Bay Ifaciny -31



## Hange riofles - Ineory



## 

## ifing limejes



## Typical Lighing Moilel

## o Ambient

Bactoround ingivilayd
o Difilise

- Matiosurabe

Sperilas
The winiow on the ajple

## Bidicetional haifence Distilnion FIUCIOMS [Bildis]



## BHISGONL

o Physios-hasedilighing
Pobizized light
Eramper Wetparement
$\phi_{\mathrm{i}} \approx \phi_{\mathrm{r}}$

- $\theta_{\mathrm{i}}$ and $\theta_{\mathrm{r}}$ both small


## Billifliliftalions

o Intensity independent of:

- $\phi_{\mathrm{i}}$ (no polarization on incoming light)
- $\phi_{\mathrm{r}}$ (no polarization on outgoing light)
\% $\theta_{\mathrm{i}}=\theta_{\mathrm{r}}$ (light source and camera at same point)
\% $\mathrm{I}\left(\phi_{\mathrm{i}}, \phi_{\mathrm{r}}, \theta_{\mathrm{i}}, \theta_{\mathrm{r}}\right) \rightarrow \mathrm{I}(\theta)$


## POUHRanye

\% Whitill
\% What intionse \% Performancos

- 800x600: 21 mTL T2Itames - 819240192 efflisel 1 trame



## リ®110

## "POV-Panyg"

a Viewrange image in Matitil

## Further Infonmation.


PIIGJIOSAII Pratiog


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